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NEWS	1		Web Page URLs for STN Seminar Schedule - N. America
NEWS	2		"Ask CAS" for self-help around the clock
NEWS	3	SEP 09	CA/CAplus records now contain indexing from 1907 to the present
NEWS	4	Jul 15	Data from 1960-1976 added to RDISCLOSURE
NEWS	5	Jul 21	Identification of STN records implemented
NEWS	6	Jul 21	Polymer class term count added to REGISTRY
NEWS	7	Jul 22	INPADOC: Basic index (/BI) enhanced; Simultaneous Left and Right Truncation available
NEWS	8	AUG 05	New pricing for EUROPATFULL and PCTFULL effective August 1, 2003
NEWS	9	AUG 13	Field Availability (/FA) field enhanced in BEILSTEIN
NEWS	10	AUG 15	PATDPAFULL: one FREE connect hour, per account, in September 2003
NEWS	11	AUG 15	PCTGEN: one FREE connect hour, per account, in September 2003
NEWS	12	AUG 15	RDISCLOSURE: one FREE connect hour, per account, in September 2003
NEWS	13	AUG 15	TEMA: one FREE connect hour, per account, in September 2003
NEWS	14	AUG 18	Data available for download as a PDF in RDISCLOSURE
NEWS	15	AUG 18	Simultaneous left and right truncation added to PASCAL
NEWS	16	AUG 18	FROSTI and KOSMET enhanced with Simultaneous Left and Righ Truncation
NEWS	17	AUG 18	Simultaneous left and right truncation added to ANABSTR
NEWS	18	SEP 22	DIPPR file reloaded

NEWS EXPRESS	April 4 CURRENT WINDOWS VERSION IS V6.01a, CURRENT MACINTOSH VERSION IS V6.0b(ENG) AND V6.0Jb(JP), AND CURRENT DISCOVER FILE IS DATED 01 APRIL 2003
NEWS HOURS	STN Operating Hours Plus Help Desk Availability
NEWS INTER	General Internet Information
NEWS LOGIN	Welcome Banner and News Items
NEWS PHONE	Direct Dial and Telecommunication Network Access to STN
NEWS WWW	CAS World Wide Web Site (general information)

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FILE 'HOME' ENTERED AT 14:49:15 ON 22 SEP 2003

=> fil reg
COST IN U.S. DOLLARS SINCE FILE ENTRY TOTAL SESSION

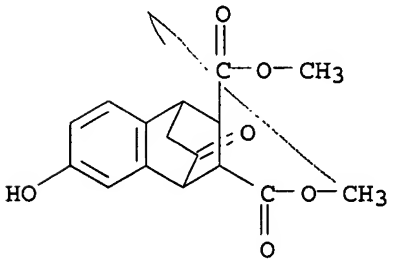
L12 ANSWER 16 OF 16 CAPLUS COPYRIGHT 2003 ACS on STN

AB The Diels-Alder reaction of 1,7-, 2,7-, 2,6-, and 1,6-dihydroxynaphthalene and 6-bromo-2-naphthol with maleic anhydride was investigated. All of these 2-naphthol derivs. gave exo and endo adducts except for the bromonaphthol, from which only an endo adduct was obtained. The assignment of exo or endo configuration was based on lactone formation on NaBH4 redn. (possible only from the exo isomer), comparison of NMR spectra, and in some cases dipole moment measurements. The exo-endo ratios of the formed adducts vary over a wide range. Title resolution was accomplished via the cinchonidine salts. The abs. configuration of the resolved compds. was detd. by applying the octant rule.

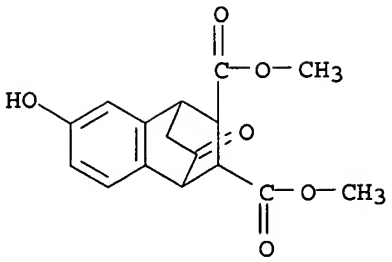
ACCESSION NUMBER: 1970:414534 CAPLUS
DOCUMENT NUMBER: 73:14534
TITLE: Diels-Alder reaction. IX. Reaction of 1,7-, 2,7-, 2,6-, and 1,6-dihydroxynaphthalene and 6-bromo-2-naphthol with maleic anhydride and the resolution of some derivatives of the adducts
AUTHOR(S): Takeda, Kenichi; Hagishita, Sanji; Sugiura, Michi; Kitahonoki, Keizo; Ban, Isoo; Miyazaki, Sadao; Kuriyama, Kaoru
CORPORATE SOURCE: Shionogi Res. Lab., Shionogi and Co. Ltd., Osaka, Japan
SOURCE: Tetrahedron (1970), 26(6), 1435-51
CODEN: TETRAB; ISSN: 0040-4020
DOCUMENT TYPE: Journal
LANGUAGE: English

IT **29038-00-4P 29038-11-7P 29073-46-9P 29073-48-1P 29073-55-0P 29073-57-2P 29073-64-1P 29073-71-0P 29073-72-1P 29196-80-3P 29206-51-7P 31770-13-5P 31770-14-6P**
RL: SPN (Synthetic preparation); PREP (Preparation)
(prepn. of)

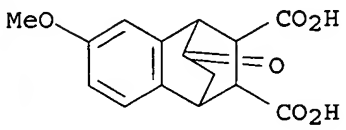
RN 29038-00-4 CAPLUS
CN 1,4-Ethanonaphthalene-2,3-dicarboxylic acid, 1.alpha.,2.beta.,3.beta.,4.alpha.-tetrahydro-6-hydroxy-9-oxo-, dimethyl ester, (.+-.)- (8CI) (CA INDEX NAME)



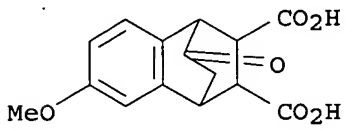
RN 29038-11-7 CAPLUS
CN 1,4-Ethanonaphthalene-2,3-dicarboxylic acid, 1.alpha.,2.alpha.,3.alpha.,4.alpha.-tetrahydro-6-hydroxy-10-oxo-, dimethyl ester, (.+-.)- (8CI) (CA INDEX NAME)



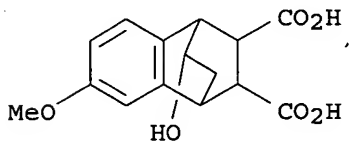
RN 29073-46-9 CAPLUS
CN 1,4-Ethanonaphthalene-2,3-dicarboxylic acid, 1.alpha.,2.beta.,3.alpha.,4.alpha.-tetrahydro-6-methoxy-9-oxo-, (.+-.)- (8CI) (CA INDEX NAME)



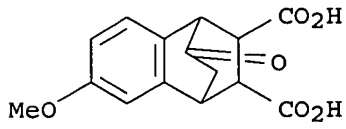
RN 29073-48-1 CAPLUS
CN 1,4-Ethanonaphthalene-2,3-dicarboxylic acid, 1.alpha.,2.alpha.,3.beta.,4.alpha.-tetrahydro-6-methoxy-10-oxo-, (.+-.)- (8CI) (CA INDEX NAME)



RN 29073-55-0 CAPLUS
CN 1,4-Ethanonaphthalene-2,3-dicarboxylic acid, 1.alpha.,2.beta.,3.alpha.,4.alpha.-tetrahydro-10-hydroxy-6-methoxy-, (.+-.)- (8CI) (CA INDEX NAME)



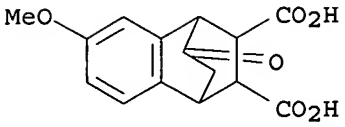
RN 29073-57-2 CAPLUS
CN 1,4-Ethanonaphthalene-2,3-dicarboxylic acid, 1,2,3,4-tetrahydro-6-methoxy-10-oxo-, [1R-(1.alpha.,2.beta.,3.alpha.,4.alpha.)]- (9CI) (CA INDEX NAME)



RN 29073-64-1 CAPLUS
CN Cinchonidine, (1S,2S,3S,4R)-(+)-1,2,3,4-tetrahydro-6-methoxy-9-oxo-1,4-ethanonaphthalene-2,3-dicarboxylate (1:1) (8CI) (CA INDEX NAME)

CM 1

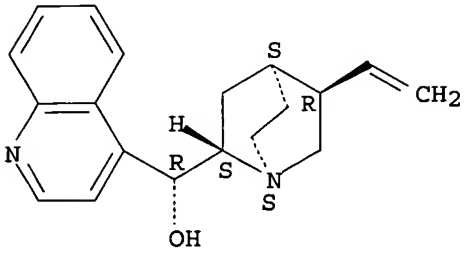
CRN 47131-85-1
CMF C15 H14 O6



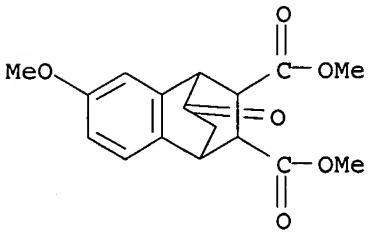
CM 2

CRN 485-71-2
CMF C19 H22 N2 O

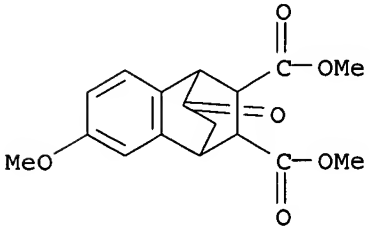
Absolute stereochemistry.



RN 29073-71-0 CAPLUS
CN 1,4-Ethanonaphthalene-2,3-dicarboxylic acid, 1.alpha.,2.beta.,3.beta.,4.alpha.-tetrahydro-6-methoxy-9-oxo-, dimethyl ester, (.+-.)- (8CI) (CA INDEX NAME)

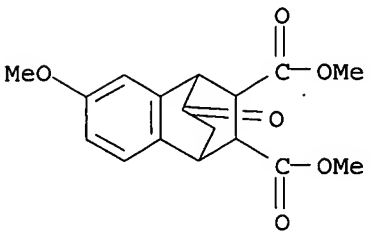


RN 29073-72-1 CAPLUS
CN 1,4-Ethanonaphthalene-2,3-dicarboxylic acid, 1.alpha.,2.alpha.,3.alpha.,4.alpha.-tetrahydro-6-methoxy-10-oxo-, dimethyl ester, (.+-.)- (8CI) (CA INDEX NAME)

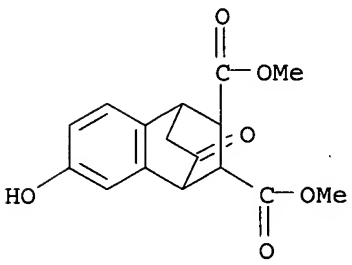


RN 29196-80-3 CAPLUS

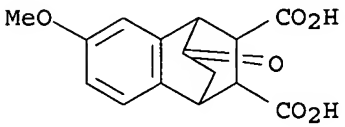
CN 1,4-Ethanonaphthalene-2,3-dicarboxylic acid, 1.alpha.,2.alpha.,3.alpha.,4.alpha.-tetrahydro-6-methoxy-9-oxo-, dimethyl ester, (.+-.)- (8CI) (CA INDEX NAME)



RN 29206-51-7 CAPLUS
CN 1,4-Ethanonaphthalene-2,3-dicarboxylic acid, 1.alpha.,2.alpha.,3.alpha.,4.alpha.-tetrahydro-6-hydroxy-9-oxo-, dimethyl ester, (.+-.)- (8CI) (CA INDEX NAME)

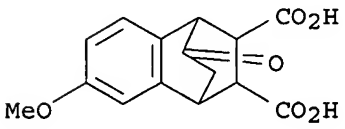


RN 31770-13-5 CAPLUS
CN 1,4-Ethanonaphthalene-2,3-dicarboxylic acid, 1,2,3,4-tetrahydro-6-methoxy-9-oxo-, disodium salt, (1S,2S,3S,4R)-(+)- (8CI) (CA INDEX NAME)



●2 Na

RN 31770-14-6 CAPLUS
CN 1,4-Ethanonaphthalene-2,3-dicarboxylic acid, 1.alpha.,2.beta.,3.alpha.,4.alpha.-tetrahydro-6-methoxy-10-oxo-, (.+-.)- (8CI) (CA INDEX NAME)



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STRUCTURE FILE UPDATES: 21 SEP 2003 HIGHEST RN 590345-44-1
DICTIONARY FILE UPDATES: 21 SEP 2003 HIGHEST RN 590345-44-1

TSCA INFORMATION NOW CURRENT THROUGH JULY 14, 2003

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Crossover limits have been increased. See HELP CROSSOVER for details.

Experimental and calculated property data are now available. See HELP PROPERTIES for more information. See STNote 27, Searching Properties in the CAS Registry File, for complete details:
http://www.cas.org/ONLINE/STN/STNOTES/stnotes27.pdf

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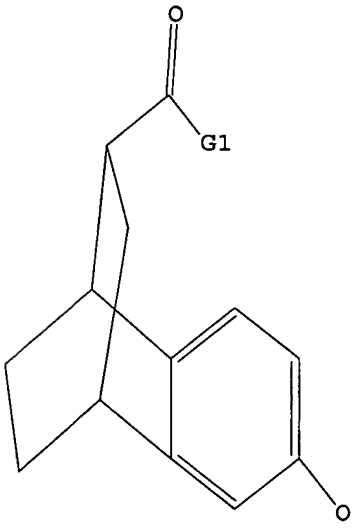
L1 STRUCTURE UPLOADED

=> d query
L1 STR



G1 O,N

Structure attributes must be viewed using STN Express query preparation.

=> s l1
SAMPLE SEARCH INITIATED 14:49:50 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED - 15620 TO ITERATE

6.4% PROCESSED 1000 ITERATIONS 0 ANSWERS
INCOMPLETE SEARCH (SYSTEM LIMIT EXCEEDED)
SEARCH TIME: 00.00.01

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FULL FILE PROJECTIONS:  ONLINE  **COMPLETE**
                        BATCH   **COMPLETE**
PROJECTED ITERATIONS:       304922 TO   319878
PROJECTED ANSWERS:               0 TO        0

L2            0 SEA SSS SAM L1

=> s l1 full
FULL SEARCH INITIATED 14:49:58 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED - 313064 TO ITERATE

100.0% PROCESSED  313064 ITERATIONS                              257 ANSWERS
SEARCH TIME: 00.00.03

L3          257 SEA SSS FUL L1

=> fil caplus
COST IN U.S. DOLLARS                                SINCE FILE      TOTAL
                                                       ENTRY    SESSION
FULL ESTIMATED COST                                   148.15     148.36

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FILE COVERS 1907 - 22 Sep 2003  VOL 139 ISS 13
FILE LAST UPDATED: 21 Sep 2003  (20030921/ED)

  This file contains CAS Registry Numbers for easy and accurate
  substance identification.


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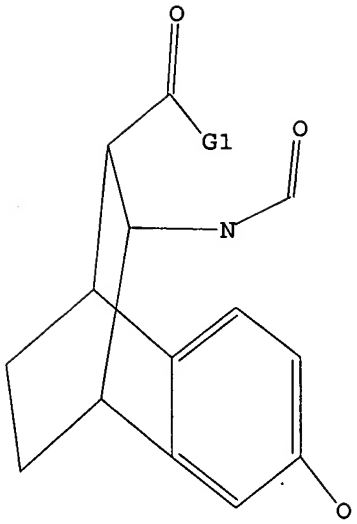
L4      STRUCTURE UPLOADED

=> d query
L4              STR
```



G1 O,N

Structure attributes must be viewed using STN Express query preparation.

=> s l4
   REG1stRY INITIATED
Substance data SEARCH and crossover from CAS REGISTRY in progress...
Use DISPLAY HITSTR (or FHITSTR) to directly view retrieved structures.

SAMPLE SEARCH INITIATED 14:51:45 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED - 77 TO ITERATE

100.0% PROCESSED 77 ITERATIONS 0 ANSWERS
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE **COMPLETE**
BATCH **COMPLETE**
PROJECTED ITERATIONS: 1014 TO 2066
PROJECTED ANSWERS: 0 TO 0

L5 0 SEA SSS SAM L4

L6 0 L5

=> s l4 full
   REG1stRY INITIATED
Substance data SEARCH and crossover from CAS REGISTRY in progress...
Use DISPLAY HITSTR (or FHITSTR) to directly view retrieved structures.

FULL SEARCH INITIATED 14:51:52 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED - 1297 TO ITERATE

100.0% PROCESSED 1297 ITERATIONS 19 ANSWERS
SEARCH TIME: 00.00.01

L7 19 SEA SSS FUL L4

L8 2 L7

=> d l8 1-2 abs ibib hitstr

L8 ANSWER 1 OF 2 CAPLUS COPYRIGHT 2003 ACS on STN
GI

* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT *

AB Title compds. I [R1 = NR8COR9, NR8CO2R9, NR8CON(R9)2, COR9, CO2R9, CON(R9)2; R2 = OR9, N(R9)2; R3 = H, halo, OH, protected-OH, NH2, protected-NH2, alkyl, haloalkyl; R4-5 = R9, OR9, N(R9)2, N=NR9, R4, R5 may together form =O, =C(R8)2, NR10 or R4-5 together with the carbon to which they are both attached form spiro carbocyclic or heterocyclic ring; R6 = H, inorg. groups having 1-8 atoms selected from boron, sulfur, phosphorous, silicon, hydrogen, and org. groups having 1-20 carbons, optionally contg. 1-4 heteroatoms selected from nitrogen, oxygen and silicon; R7 = halo, OH, protected-OH, NH2, protected-NH2, alkyl, haloalkyl; R8 = H, alkyl, aryl, heteroalkyl; R9 = H, org. groups having 1-30 carbons with the provision that two R9 groups both joined to common atom may be joined together so as to form ring with the common atom; R10 = R9, OR9, N(R9)2, NHCOR9; NHCOOR9, NHCSNHR9; n is 0-2; with the proviso that when R6 = H, R4-5 together form =O and R1 = CO2R2, then R2 is not OCH3] were prepd. For instance, 2,7-dihydroxynaphthalene was reacted with maleic anhydride (1,2-dichlorobenzene/PhMe, 110.degree.C, 3 days) to afford the bicyclobenzocyclobutane adduct (16% yield). This anhydride was reacted with 2-(trimethylsilyl)ethanol affording a 1:1 mixt. of regio isomers which was isolated as the dicyclohexylamine (DCA) salt (93% yield). The DCA salt was treated with 2M HCl permitting the isolation of the free regioisomers which were then converted to the isopropylamine salts and crystd. affording the desired regioisomer as a 87/16 mixt. Further crystn. and liberation of the acid ester afforded II as a white solid in 30% overall yield with 98.2% purity by HPLC. Also described is a process of prepg. a combinatorial library of I from III [linker = e.g., O-CH2-C6H5-O-CH2CONH; SS = solid support; PG1 = protecting group, e.g., O-allyl; PG2 = protecting group, e.g., OCH2CH2TMS]. The method involves removal of PG1 (PG1 = O-allyl, (Ph3)4Pd/N-methylaniline) in the presence of PG2 (PG2 = OCH2CH2TMS, TBAF) and subsequent amidation with a plurality of amines; removal of PG2 and amidation with a plurality of amines and removal of the linker (TFAaq) to liberate the corresponding bis(amides). A library of 1152 bis(amides) were prepd. in this manner. Compds. of the invention were evaluated for inhibition of apoptosis and NF.kappa.B. I are useful for inhibiting cellular events involving TNF-.alpha. and IL-8, and in the treatment of inflammation events in general.

ACCESSION NUMBER: 2002:504796 CAPLUS
DOCUMENT NUMBER: 137:78768
TITLE: Preparation and use of benzobicyclobutanes as inhibitors of TNF-.alpha., IL-8 and for treating inflammation
INVENTOR(S): Jackson, Randy W.; Darwish, Ihab; Baughman, Ted A.; Howbert, J. Jeffry
PATENT ASSIGNEE(S): Celltech R & D, Inc., USA
SOURCE: PCT Int. Appl., 200 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1

L8 ANSWER 1 OF 2 CAPLUS COPYRIGHT 2003 ACS on STN (Continued)
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2002051851	A2	20020704	WO 2001-US47993	20011211
WO 2002051851	A3	20030123		

W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM

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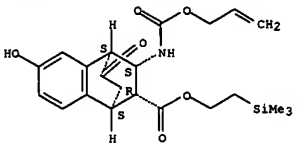
US 2003069305	A1	20030410	US 2001-15828	20011211

PRIORITY APPLN. INFO.: US 2000-257532P P 20001222
OTHER SOURCE(S): MARPAT 137:78768

IT **439798-63-7P 439798-84-2P**
RL: PAC (Pharmacological activity); RCT (Reactant); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); RACT (Reactant or reagent); USES (Uses)
(drug; prepn. of benzobicyclobutanes derived from Diels-Alder adduct of 2,7-dihydroxynaphthalene and maleic anhydride as inhibitors of TNF-.alpha., IL-8)

RN 439798-63-7 CAPLUS
CN 1,4-Ethanonaphthalene-2-carboxylic acid, 1,2,3,4-tetrahydro-6-hydroxy-9-oxo-3-[[(2-propenyloxy)carbonyl]amino]-, 2-(trimethylsilyl)ethyl ester, (1R,2S,3R,4R)-rel- (9CI) (CA INDEX NAME)

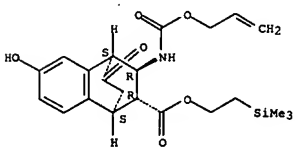
Relative stereochemistry.



RN 439798-84-2 CAPLUS
CN 1,4-Ethanonaphthalene-2-carboxylic acid, 1,2,3,4-tetrahydro-6-hydroxy-9-oxo-3-[[(2-propenyloxy)carbonyl]amino]-, 2-(trimethylsilyl)ethyl ester, (1R,2S,3S,4R)-rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.

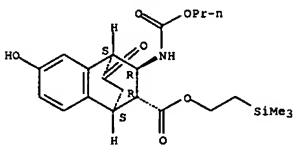
L8 ANSWER 1 OF 2 CAPLUS COPYRIGHT 2003 ACS on STN (Continued)



IT **439798-80-8P 439798-81-9P 439798-82-0P**
439798-83-1P 439798-85-3P 439798-86-4P
439798-87-5P 439798-88-6P 439798-89-7P
439798-90-0P 439798-91-1P 439799-36-7P
439799-37-8P 439799-80-1P 439800-25-6P
RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(drug; prepn. of benzobicyclobutanes derived from Diels-Alder adduct of 2,7-dihydroxynaphthalene and maleic anhydride as inhibitors of TNF-.alpha., IL-8)

RN 439798-80-8 CAPLUS
CN 1,4-Ethanonaphthalene-2-carboxylic acid, 1,2,3,4-tetrahydro-6-hydroxy-9-oxo-3-[(propoxycarbonyl)amino]-, 2-(trimethylsilyl)ethyl ester, (1R,2S,3S,4R)-rel- (9CI) (CA INDEX NAME)

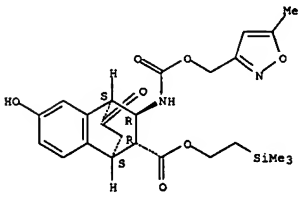
Relative stereochemistry.



RN 439798-81-9 CAPLUS
CN 1,4-Ethanonaphthalene-2-carboxylic acid, 1,2,3,4-tetrahydro-6-hydroxy-3-[[[(5-methyl-3-isoxazolyl)methoxy]carbonyl]amino]-9-oxo-, 2-(trimethylsilyl)ethyl ester, (1R,2S,3S,4R)-rel- (9CI) (CA INDEX NAME)

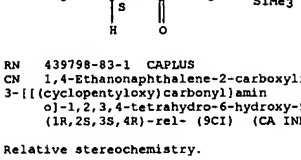
Relative stereochemistry.

L8 ANSWER 1 OF 2 CAPLUS COPYRIGHT 2003 ACS on STN (Continued)



RN 439798-82-0 CAPLUS
CN 1,4-Ethanonaphthalene-2-carboxylic acid, 1,2,3,4-tetrahydro-6-hydroxy-3-[[(1-methylethoxy)carbonyl]amino]-9-oxo-, 2-(trimethylsilyl)ethyl ester, (1R,2S,3S,4R)-rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.

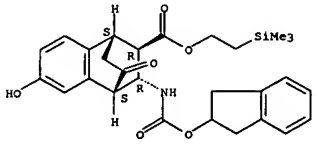


RN 439798-83-1 CAPLUS
CN 1,4-Ethanonaphthalene-2-carboxylic acid, 3-[[(cyclopentyloxy)carbonyl]amino]-1,2,3,4-tetrahydro-6-hydroxy-9-oxo-, 2-(trimethylsilyl)ethyl ester, (1R,2S,3S,4R)-rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.

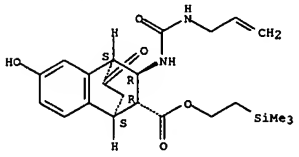
RN 439798-85-3 CAPLUS
CN 1,4-Ethanonaphthalene-2-carboxylic acid, 3-[[[(2,3-dihydro-1H-inden-2-yl)oxy]carbonyl]amino]-1,2,3,4-tetrahydro-6-hydroxy-9-oxo-, 2-(trimethylsilyl)ethyl ester, (1R,2S,3S,4R)-rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.



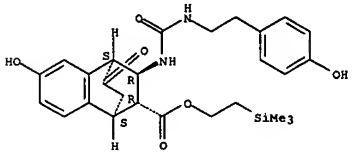
RN 439798-86-4 CAPLUS
CN 1,4-Ethanonaphthalene-2-carboxylic acid, 1,2,3,4-tetrahydro-6-hydroxy-9-oxo-3-[[(2-propenylamino)carbonyl]amino]-, 2-(trimethylsilyl)ethyl ester, (1R,2S,3S,4R)-rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.



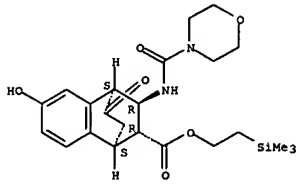
RN 439798-87-5 CAPLUS
CN 1,4-Ethanonaphthalene-2-carboxylic acid, 1,2,3,4-tetrahydro-6-hydroxy-3-[[[[2-(4-hydroxyphenyl)ethyl]amino]carbonyl]amino]-9-oxo-, 2-(trimethylsilyl)ethyl ester, (1R,2S,3S,4R)-rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.



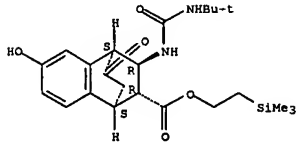
RN 439798-88-6 CAPLUS
CN 1,4-Ethanonaphthalene-2-carboxylic acid, 1,2,3,4-tetrahydro-6-hydroxy-3-[(4-morpholinylcarbonyl)amino]-9-oxo-, 2-(trimethylsilyl)ethyl ester, (1R,2S,3S,4R)-rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.



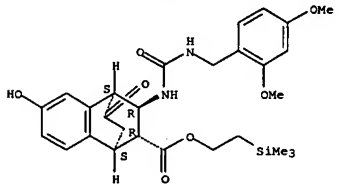
RN 439798-89-7 CAPLUS
CN 1,4-Ethanonaphthalene-2-carboxylic acid, 3-[[[(1,1-dimethylethyl)amino]carbonyl]amino]-1,2,3,4-tetrahydro-6-hydroxy-9-oxo-, 2-(trimethylsilyl)ethyl ester, (1R,2S,3S,4R)-rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.



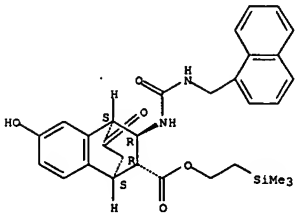
RN 439798-90-0 CAPLUS
CN 1,4-Ethanonaphthalene-2-carboxylic acid, 3-[[[[(2,4-dimethoxyphenyl)methyl]amino]carbonyl]amino]-1,2,3,4-tetrahydro-6-hydroxy-9-oxo-, 2-(trimethylsilyl)ethyl ester, (1R,2S,3S,4R)-rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.



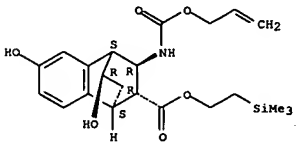
RN 439798-91-1 CAPLUS
CN 1,4-Ethanonaphthalene-2-carboxylic acid, 1,2,3,4-tetrahydro-6-hydroxy-3-[[[(1-naphthalenylmethyl)amino]carbonyl]amino]-9-oxo-, 2-(trimethylsilyl)ethyl ester, (1R,2S,3S,4R)-rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.



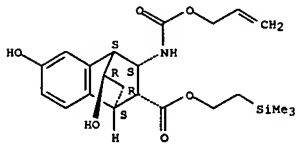
RN 439799-36-7 CAPLUS
CN 1,4-Ethanonaphthalene-2-carboxylic acid, 1,2,3,4-tetrahydro-6,9-dihydroxy-3-[[(2-propenyloxy)carbonyl]amino]-, 2-(trimethylsilyl)ethyl ester, (1R,2S,3S,4R,9S)-rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.



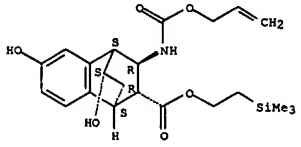
RN 439799-37-8 CAPLUS
CN 1,4-Ethanonaphthalene-2-carboxylic acid, 1,2,3,4-tetrahydro-6,9-dihydroxy-3-[[(2-propenyloxy)carbonyl]amino]-, 2-(trimethylsilyl)ethyl ester, (1R,2S,3R,4R,9S)-rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.



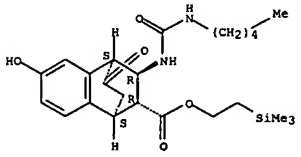
RN 439799-80-1 CAPLUS
CN 1,4-Ethanonaphthalene-2-carboxylic acid, 1,2,3,4-tetrahydro-6,9-dihydroxy-3-[[(2-propenyloxy)carbonyl]amino]-, 2-(trimethylsilyl)ethyl ester, (1R,2S,3S,4R,9R)-rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.



RN 439800-25-6 CAPLUS
CN 1,4-Ethanonaphthalene-2-carboxylic acid, 1,2,3,4-tetrahydro-6-hydroxy-9-oxo-3-[[(pentylamino)carbonyl]amino]-, 2-(trimethylsilyl)ethyl ester, (1R,2S,3S,4R)-rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.



L8 ANSWER 2 OF 2 CAPLUS COPYRIGHT 2003 ACS on STN

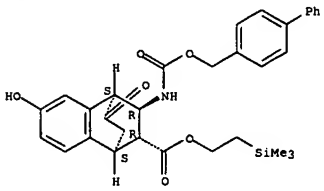
AB A novel series of TNF-.alpha. inhibitors based on a benzobicyclooctane scaffold was reported. The compds. displayed good potency in inhibiting TNF-.alpha. induced apoptosis and NF.kappa.B activation. Addnl., they were selective for TNF-.alpha. as they did not inhibit apoptosis induced by sol. Fas ligand. The compds. described here can act as leads for future medicinal chem. efforts and may also be useful tools for elucidating the TNF-.alpha. signaling pathway.

ACCESSION NUMBER: 2002:211239 CAPLUS
DOCUMENT NUMBER: 137:288467
TITLE: Benzobicyclooctanes as novel inhibitors of TNF-.alpha. signaling
AUTHOR(S): Jackson, Randy W.; Gelinas, Richard; Baughman, Ted A.; Cox, Thomas; Howbert, J. Jeffry; Kucera, Kristin A.; Latham, John A.; Ramsdell, Fred; Singh, Devinder; Darwish, Ihab S.
CORPORATE SOURCE: Department of Chemical Genomics, Celltech R&D, Inc., Bothell, WA, 98021, USA
SOURCE: Bioorganic & Medicinal Chemistry Letters (2002), 12(7), 1093-1097
CODEN: BMCLE8; ISSN: 0960-894X
PUBLISHER: Elsevier Science Ltd.
DOCUMENT TYPE: Journal
LANGUAGE: English

IT **468086-82-0P 468086-83-1P**
RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(benzobicyclooctanes as novel inhibitors of TNF-.alpha. signaling)

RN 468086-82-0 CAPLUS
CN 1,4-Ethanonaphthalene-2-carboxylic acid, 3-[[[(1,1'-biphenyl]-4-ylmethoxy)carbonyl]amino]-1,2,3,4-tetrahydro-6-hydroxy-9-oxo-, 2-(trimethylsilyl)ethyl ester, (1R,2S,3S,4R)-rel- (9CI) (CA INDEX NAME)

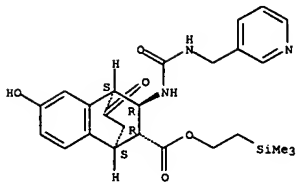
Relative stereochemistry.



RN 468086-83-1 CAPLUS
CN 1,4-Ethanonaphthalene-2-carboxylic acid, 1,2,3,4-tetrahydro-6-hydroxy-9-oxo-3-[[[(3-pyridinylmethyl)amino]carbonyl]amino]-, 2-(trimethylsilyl)ethyl ester, (1R,2S,3S,4R)-rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.

L8 ANSWER 2 OF 2 CAPLUS COPYRIGHT 2003 ACS on STN (Continued)



REFERENCE COUNT: 20 THERE ARE 20 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

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COST IN U.S. DOLLARS                                    SINCE FILE      TOTAL
                                                           ENTRY    SESSION
FULL ESTIMATED COST                                        10.74     309.32

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)              SINCE FILE      TOTAL
                                                           ENTRY    SESSION
CA SUBSCRIBER PRICE                                        -1.30      -1.30

FILE 'REGISTRY' ENTERED AT 14:54:26 ON 22 SEP 2003
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STRUCTURE FILE UPDATES:   21 SEP 2003  HIGHEST RN 590345-44-1
DICTIONARY FILE UPDATES:  21 SEP 2003  HIGHEST RN 590345-44-1

TSCA INFORMATION NOW CURRENT THROUGH JULY 14, 2003

  Please note that search-term pricing does apply when
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Experimental and calculated property data are now available.  See HELP
PROPERTIES for more information.  See STNote 27, Searching Properties
in the CAS Registry File, for complete details:
http://www.cas.org/ONLINE/STN/STNOTES/stnotes27.pdf

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L9      STRUCTURE UPLOADED

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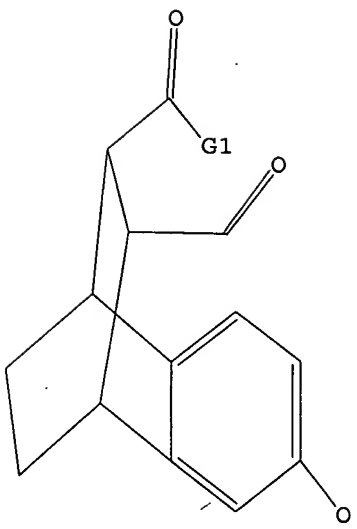

G1 O,N

Structure attributes must be viewed using STN Express query preparation.

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SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS:  ONLINE  **COMPLETE**
                        BATCH   **COMPLETE**
PROJECTED ITERATIONS:          7004 TO     9436
PROJECTED ANSWERS:                8 TO      329

L10           8 SEA SSS SAM L9

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SEARCH TIME: 00.00.01

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FULL ESTIMATED COST                              148.55     457.87

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)    SINCE FILE      TOTAL
                                                   ENTRY    SESSION
CA SUBSCRIBER PRICE                                0.00      -1.30

FILE 'CAPLUS' ENTERED AT 14:55:53 ON 22 SEP 2003
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FILE COVERS 1907 - 22 Sep 2003 VOL 139 ISS 13
FILE LAST UPDATED: 21 Sep 2003 (20030921/ED)

This file contains CAS Registry Numbers for easy and accurate substance identification.

=> s l11
L12 16 L11

=> d l12 1-16 abs ibib hitstr

L12 ANSWER 1 OF 16 CAPLUS COPYRIGHT 2003 ACS on STN
GI

* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT *

AB Title compds. I [R1 = NR8COR9, NR8CO2R9, NR8CON(R9)2, COR9, CO2R9, CON(R9)2; R2 = OR9, N(R9)2; R3 = H, halo, OH, protected-OH, NH2, protected-NH2, alkyl, haloalkyl; R4-5 = R9, OR9, N(R9)2, N=NR9, R4, R5 may together form =O, =C(R8)2, NR10 or R4-5 together with the carbon to which they are both attached form spiro carbocyclic or heterocyclic ring; R6 = H, inorg. groups having 1-8 atoms selected from boron, sulfur, phosphorous, silicon, hydrogen, and org. groups having 1-20 carbons, optionally contg. 1-4 heteroatoms selected from nitrogen, oxygen and silicon; R7 = halo, OH, protected-OH, NH2, protected-NH2, alkyl, haloalkyl; R8 = H, alkyl, aryl, heteroalkyl; R9 = H, org. groups having 1-30 carbons with the provision that two R9 groups both joined to common atom may be joined together so as to form ring with the common atom; R10 = R9, OR9, N(R9)2, NHCOR9; NHCOOR9, NHCSNHR9; n is 0-2; with the proviso that when R6 = H, R4-5 together form =O and R1 = CO2R2, then R2 is not OCH3] were prepd. For instance, 2,7-dihydroxynaphthalene was reacted with maleic anhydride (1,2-dichlorobenzene/PhMe, 110.degree.C, 3 days) to afford the bicyclobenzocyclobutane adduct (16% yield). This anhydride was reacted with 2-(trimethylsilyl)ethanol affording a 1:1 mixt. of regio isomers which was isolated as the dicyclohexylamine (DCA) salt (93% yield). The DCA salt was treated with 2M HCl permitting the isolation of the free regioisomers which were then converted to the isopropylamine salts and crystd. affording the desired regioisomer as a 87/16 mixt. Further crystn. and liberation of the acid ester afforded II as a white solid in 30% overall yield with 98.2% purity by HPLC. Also described is a process of prepg. a combinatorial library of I from III [linker = e.g., O-CH2-C6H5-O-CH2CONH; SS = solid support; PG1 = protecting group, e.g., O-allyl; PG2 = protecting group, e.g., OCH2CH2TMS]. The method involves removal of PG1 (PG1 = O-allyl, (Ph3)4Pd/N-methylaniline) in the presence of PG2 (PG2 = OCH2CH2TMS, TBAF) and subsequent amidation with a plurality of amines; removal of PG2 and amidation with a plurality of amines and removal of the linker (TFAaq) to liberate the corresponding bis(amides). A library of 1152 bis(amides) were prepd. in this manner. Compds. of the invention were evaluated for inhibition of apoptosis and NF.kappa.B. I are useful for inhibiting cellular events involving TNF-.alpha. and IL-8, and in the treatment of inflammation events in general.

ACCESSION NUMBER: 2002:504796 CAPLUS
DOCUMENT NUMBER: 137:78768
TITLE: Preparation and use of benzobicyclobutanes as inhibitors of TNF-.alpha., IL-8 and for treating inflammation
INVENTOR(S): Jackson, Randy W.; Darwish, Ihab; Baughman, Ted A.; Howbert, J. Jeffry
PATENT ASSIGNEE(S): Celltech R & D, Inc., USA
SOURCE: PCT Int. Appl., 200 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1

L12 ANSWER 1 OF 16 CAPLUS COPYRIGHT 2003 ACS on STN (Continued)
PATENT INFORMATION:

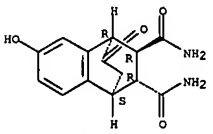
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2002051851	A2	20020704	WO 2001-US47993	20011211
WO 2002051851	A3	20030123		

W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG

US 2003069305 A1 20030410 US 2001-15828 20011211
PRIORITY APPLN. INFO.: US 2000-257532P P 20001222
OTHER SOURCE(S): MARPAT 137:78768

IT 439799-73-2DP, combinatorial library of amide derivs.
RL: CPN (Combinatorial preparation); PAC (Pharmacological activity); THU (Therapeutic use); BIOL (Biological study); CMBI (Combinatorial study); PREP (Preparation); USES (Uses)
(drug; prepn. of benzobicyclobutanes derived from Diels-Alder adduct of 2,7-dihydroxynaphthalene and maleic anhydride as inhibitors of TNF-.alpha., IL-8)
RN 439799-73-2 CAPLUS
CN 1,4-Ethanonaphthalene-2,3-dicarboxamide, 1,2,3,4-tetrahydro-6-hydroxy-9-oxo-, (1R,2S,3S,4S)-rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.



IT 439798-64-8P 439798-65-9P 439798-66-0P
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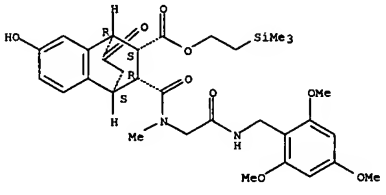
439799-40-3P 439799-41-4P 439799-45-8P
439799-84-5P 439799-86-7P 439799-90-3P
RL: PAC (Pharmacological activity); RCT (Reactant); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); RACT (Reactant or reagent); USES (Uses)
(drug; prepn. of benzobicyclobutanes derived from Diels-Alder adduct of 2,7-dihydroxynaphthalene and maleic anhydride as inhibitors of TNF-.alpha., IL-8)
RN 439798-64-8 CAPLUS
CN 1,4-Ethanonaphthalene-2-carboxylic acid, 1,2,3,4-tetrahydro-7-hydroxy-3-[[methyl[2-oxo-2-[[(2,4,6-trimethoxyphenyl)methyl]amino]ethyl]amino]carbonyl]-10-oxo-, 2-(trimethylsilyl)ethyl ester, (1R,2S,3R,4S)-rel- (9CI) (CA

L12 ANSWER 1 OF 16 CAPLUS COPYRIGHT 2003 ACS on STN (Continued)
INDEX NAME)

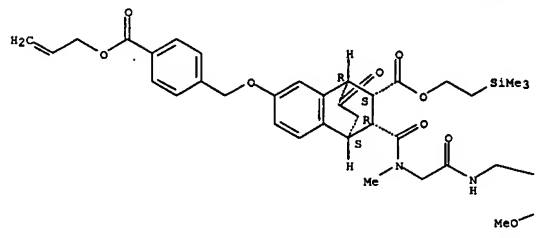
Relative stereochemistry.



RN 439798-65-9 CAPLUS
CN 1,4-Ethanonaphthalene-2-carboxylic acid, 1,2,3,4-tetrahydro-3-[[methyl[2-oxo-2-[[(2,4,6-trimethoxyphenyl)methyl]amino]ethyl]amino]carbonyl]-10-oxo-7-[[4-[(2-propenyloxy)carbonyl]phenyl]methoxy]-, 2-(trimethylsilyl)ethyl ester, (1R,2S,3R,4S)-rel- (9CI) (CA INDEX NAME)

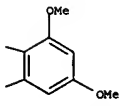
Relative stereochemistry.

PAGE 1-A



L12 ANSWER 1 OF 16 CAPLUS COPYRIGHT 2003 ACS on STN (Continued)

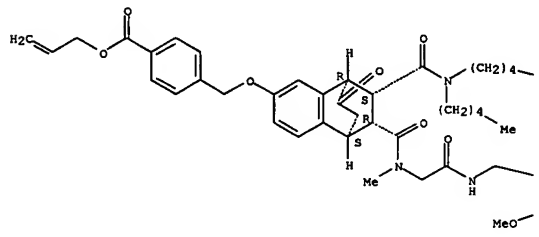
PAGE 1-B

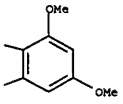


RN 439798-66-0 CAPLUS
CN Benzoic acid, 4-[[[(1R,2S,3R,4S)-3-[(dipentylamino)carbonyl]-1,2,3,4-tetrahydro-2-[[methyl[2-oxo-2-[[(2,4,6-trimethoxyphenyl)methyl]amino]ethyl]amino]carbonyl]-9-oxo-1,4-ethanonaphthalen-6-yl]oxy]methyl]-, 2-propenyl ester, rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.

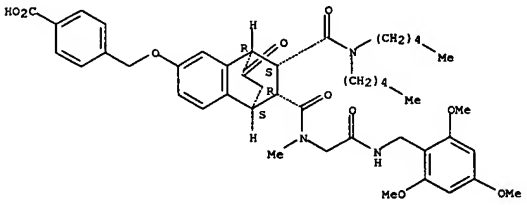
PAGE 1-A





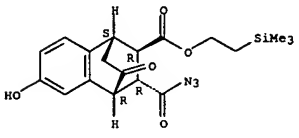
RN 439798-67-1 CAPLUS
CN Benzoic acid, 4-[[[(1R,2S,3R,4S)-3-[(dipentylamino)carbonyl]-1,2,3,4-tetrahydro-2-[[methyl[2-oxo-2-[[(2,4,6-trimethoxyphenyl)methyl]amino]ethyl]amino]carbonyl]-9-oxo-1,4-ethanonaphthalen-6-yl]oxy]methyl]-, rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.



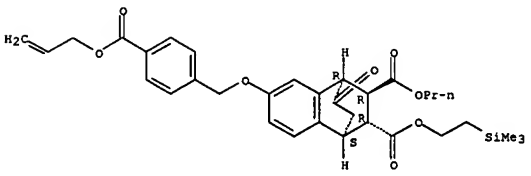
RN 439798-68-2 CAPLUS
CN 1,4-Ethanonaphthalene-2,3-dicarboxylic acid, 1,2,3,4-tetrahydro-6-hydroxy-9-oxo-, 3-[(2,4-dimethoxyphenyl)methyl] 2-[2-(trimethylsilyl)ethyl] ester, (1R,2S,3S,4S)-rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.



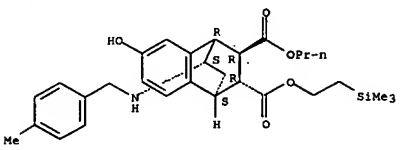
RN 439798-92-2 CAPLUS
CN 1,4-Ethanonaphthalene-2,3-dicarboxylic acid, 1,2,3,4-tetrahydro-9-oxo-6-[[4-[(2-propenyloxy)carbonyl]phenyl]methoxy]-, 3-propyl 2-[2-(trimethylsilyl)ethyl] ester, (1R,2S,3S,4S)-rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.

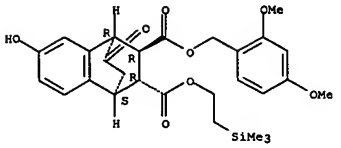


RN 439799-40-3 CAPLUS
CN 1,4-Ethanonaphthalene-2,3-dicarboxylic acid, 1,2,3,4-tetrahydro-6-hydroxy-9-[[(4-methylphenyl)methyl]amino]-, 3-propyl 2-[2-(trimethylsilyl)ethyl] ester, (1R,2S,3S,4S,9R)-rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.

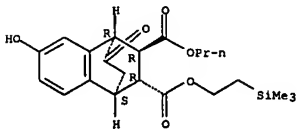


RN 439799-41-4 CAPLUS
CN 1,4-Ethanonaphthalene-2,3-dicarboxylic acid, 1,2,3,4-tetrahydro-6-hydroxy-9-(methylamino)-, 3-propyl 2-[2-(trimethylsilyl)ethyl] ester, (1R,2S,3S,4S,9R)-rel- (9CI) (CA INDEX NAME)



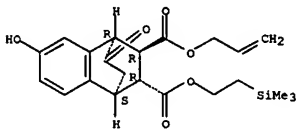
RN 439798-72-8 CAPLUS
CN 1,4-Ethanonaphthalene-2,3-dicarboxylic acid, 1,2,3,4-tetrahydro-6-hydroxy-9-oxo-, 3-propyl 2-[2-(trimethylsilyl)ethyl] ester, (1R,2S,3S,4S)-rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.



RN 439798-78-4 CAPLUS
CN 1,4-Ethanonaphthalene-2,3-dicarboxylic acid, 1,2,3,4-tetrahydro-6-hydroxy-9-oxo-, 3-(2-propenyl) 2-[2-(trimethylsilyl)ethyl] ester, (1R,2S,3S,4S)-rel- (9CI) (CA INDEX NAME)

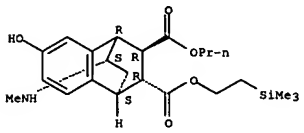
Relative stereochemistry.



RN 439798-79-5 CAPLUS
CN 1,4-Ethanonaphthalene-2-carboxylic acid, 3-(azidocarbonyl)-1,2,3,4-tetrahydro-6-hydroxy-9-oxo-, 2-(trimethylsilyl)ethyl ester, (1R,2S,3S,4S)-rel- (9CI) (CA INDEX NAME)

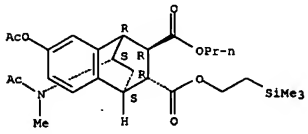
Relative stereochemistry.

Relative stereochemistry.



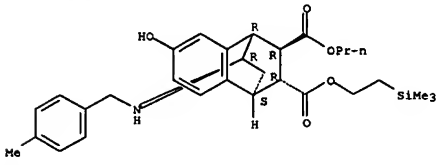
RN 439799-45-8 CAPLUS
CN 1,4-Ethanonaphthalene-2,3-dicarboxylic acid, 9-(acetylmethylamino)-6-(acetyloxy)-1,2,3,4-tetrahydro-, 3-propyl 2-[2-(trimethylsilyl)ethyl] ester, (1R,2S,3S,4S,9R)-rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.



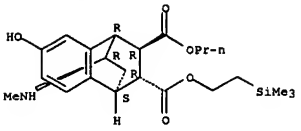
RN 439799-84-5 CAPLUS
CN 1,4-Ethanonaphthalene-2,3-dicarboxylic acid, 1,2,3,4-tetrahydro-6-hydroxy-9-[[(4-methylphenyl)methyl]amino]-, 3-propyl 2-[2-(trimethylsilyl)ethyl] ester, (1R,2S,3S,4S,9S)-rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.



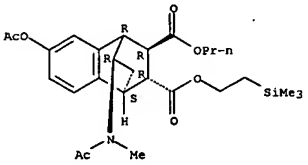
RN 439799-86-7 CAPLUS
CN 1,4-Ethanonaphthalene-2,3-dicarboxylic acid, 1,2,3,4-tetrahydro-6-hydroxy-9-(methylamino)-, 3-propyl 2-[2-(trimethylsilyl)ethyl] ester, (1R,2S,3S,4S,9S)-rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.



RN 439799-90-3 CAPLUS
CN 1,4-Ethanonaphthalene-2,3-dicarboxylic acid, 9-(acetylmethylamino)-6-(acetyloxy)-1,2,3,4-tetrahydro-, 3-propyl 2-[2-(trimethylsilyl)ethyl] ester, (1R,2S,3S,4S,9S)-rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.



IT 364778-16-5P 439798-61-5P 439798-62-6P
439798-69-3P 439798-70-6P 439798-71-7P
439798-73-9P 439798-74-0P 439798-75-1P
439798-76-2P 439798-77-3P 439798-93-3P
439798-94-4P 439798-95-5P 439798-96-6P
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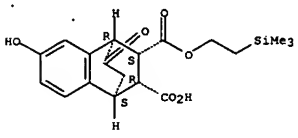
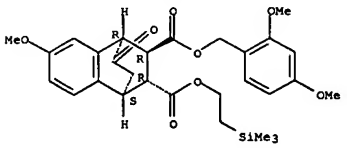


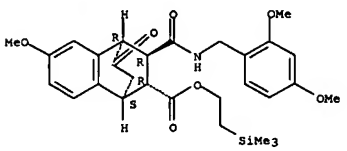
RN 439798-69-3 CAPLUS
CN 1,4-Ethanonaphthalene-2,3-dicarboxylic acid, 1,2,3,4-tetrahydro-6-methoxy-9-oxo-, 3-[(2,4-dimethoxyphenyl)methyl] 2-[2-(trimethylsilyl)ethyl] ester, (1R,2S,3S,4S)-rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.



RN 439798-70-6 CAPLUS
CN 1,4-Ethanonaphthalene-2-carboxylic acid, 3-[[[(2,4-dimethoxyphenyl)methyl]amino]carbonyl]-1,2,3,4-tetrahydro-6-methoxy-9-oxo-, 2-(trimethylsilyl)ethyl ester, (1R,2S,3S,4S)-rel- (9CI) (CA INDEX NAME)

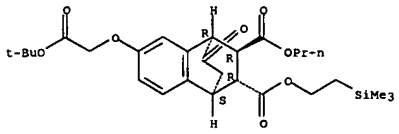
Relative stereochemistry.



RN 439798-71-7 CAPLUS
CN 1,4-Ethanonaphthalene-2-carboxylic acid, 3-[(dipentylamino)carbonyl]-1,2,3,4-tetrahydro-6-hydroxy-9-oxo-, 2-(trimethylsilyl)ethyl ester, (1R,2S,3S,4S)-rel- (9CI) (CA INDEX NAME)

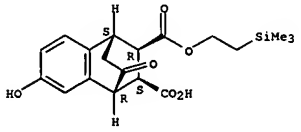
Relative stereochemistry.

439800-24-5P 439800-26-7P 439800-27-8P
439800-28-9P 439919-18-3P 439919-19-4P
RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(drug; prepn. of benzobicyclobutanes derived from Diels-Alder adduct of
2,7-dihydroxynaphthalene and maleic anhydride as inhibitors of TNF-.alpha., IL-8)



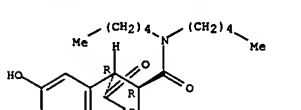
RN 364778-16-5 CAPLUS
CN 1,4-Ethanonaphthalene-2,3-dicarboxylic acid, 6-[2-(1,1-dimethylethoxy)-2-oxoethoxy]-1,2,3,4-tetrahydro-9-oxo-, 3-propyl 2-[2-(trimethylsilyl)ethyl] ester, (1R,2S,3S,4S)-rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.



RN 439798-61-5 CAPLUS
CN 1,4-Ethanonaphthalene-2,3-dicarboxylic acid, 1,2,3,4-tetrahydro-6-hydroxy-9-oxo-, 2-[2-(trimethylsilyl)ethyl] ester, (1R,2S,3R,4S)-rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.

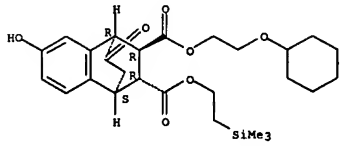


RN 439798-62-6 CAPLUS
CN 1,4-Ethanonaphthalene-2,3-dicarboxylic acid, 1,2,3,4-tetrahydro-6-hydroxy-9-oxo-, 3-[2-(trimethylsilyl)ethyl] ester, (1R,2S,3R,4S)-rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.

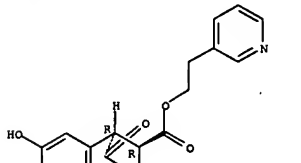
RN 439798-73-9 CAPLUS
CN 1,4-Ethanonaphthalene-2,3-dicarboxylic acid, 1,2,3,4-tetrahydro-6-hydroxy-9-oxo-, 3-[2-(cyclohexyloxy)ethyl] 2-[2-(trimethylsilyl)ethyl] ester, (1R,2S,3S,4S)-rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.



RN 439798-74-0 CAPLUS
CN 1,4-Ethanonaphthalene-2,3-dicarboxylic acid, 1,2,3,4-tetrahydro-6-hydroxy-9-oxo-, 3-[2-(3-pyridinyl)ethyl] 2-[2-(trimethylsilyl)ethyl] ester, (1R,2S,3S,4S)-rel- (9CI) (CA INDEX NAME)

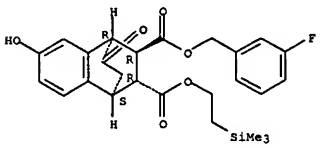
Relative stereochemistry.



RN 439798-75-1 CAPLUS

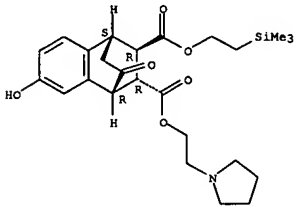
CN 1,4-Ethanonaphthalene-2,3-dicarboxylic acid,
1,2,3,4-tetrahydro-6-hydroxy-
9-oxo-, 3-[(3-fluorophenyl)methyl] 2-[2-(trimethylsilyl)ethyl] ester,
(1R,2S,3S,4S)-rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.



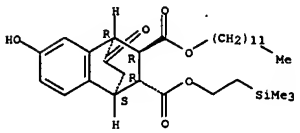
RN 439798-76-2 CAPLUS
CN 1,4-Ethanonaphthalene-2,3-dicarboxylic acid,
1,2,3,4-tetrahydro-6-hydroxy-
9-oxo-, 3-[2-(1-pyrrolidinyl)ethyl] 2-[2-(trimethylsilyl)ethyl] ester,
(1R,2S,3S,4S)-rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.



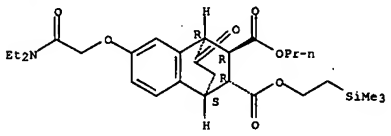
RN 439798-77-3 CAPLUS
CN 1,4-Ethanonaphthalene-2,3-dicarboxylic acid,
1,2,3,4-tetrahydro-6-hydroxy-
9-oxo-, 3-dodecyl 2-[2-(trimethylsilyl)ethyl] ester, (1R,2S,3S,4S)-rel-
(9CI) (CA INDEX NAME)

Relative stereochemistry.



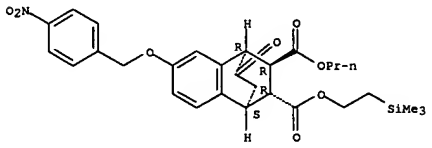
RN 439798-93-3 CAPLUS
CN 1,4-Ethanonaphthalene-2,3-dicarboxylic acid, 6-[2-(diethylamino)-2-
oxoethoxy]-1,2,3,4-tetrahydro-9-oxo-, 3-propyl
2-[2-(trimethylsilyl)ethyl]
ester, (1R,2S,3S,4S)-rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.



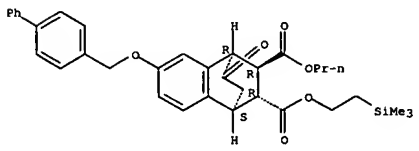
RN 439798-94-4 CAPLUS
CN 1,4-Ethanonaphthalene-2,3-dicarboxylic acid, 1,2,3,4-tetrahydro-6-[(4-
nitrophenyl)methoxy]-9-oxo-, 3-propyl 2-[2-(trimethylsilyl)ethyl] ester,
(1R,2S,3S,4S)-rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.



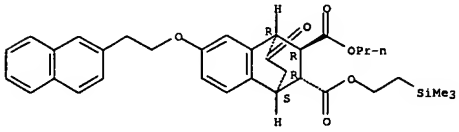
RN 439798-95-5 CAPLUS
CN 1,4-Ethanonaphthalene-2,3-dicarboxylic acid, 6-([1,1'-biphenyl]-4-
ylmethoxy)-1,2,3,4-tetrahydro-9-oxo-, 3-propyl
2-[2-(trimethylsilyl)ethyl]
ester, (1R,2S,3S,4S)-rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.



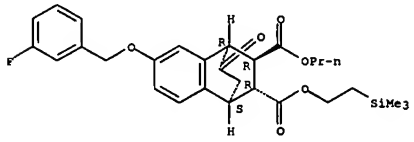
RN 439798-96-6 CAPLUS
CN 1,4-Ethanonaphthalene-2,3-dicarboxylic acid, 1,2,3,4-tetrahydro-6-[2-(2-
naphthalenyl)ethoxy]-9-oxo-, 3-propyl 2-[2-(trimethylsilyl)ethyl] ester,
(1R,2S,3S,4S)-rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.



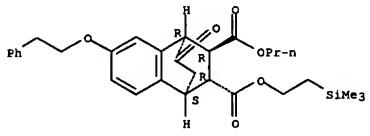
RN 439798-97-7 CAPLUS
CN 1,4-Ethanonaphthalene-2,3-dicarboxylic acid, 6-[(3-fluorophenyl)methoxy]-
1,2,3,4-tetrahydro-9-oxo-, 3-propyl 2-[2-(trimethylsilyl)ethyl] ester,
(1R,2S,3S,4S)-rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.



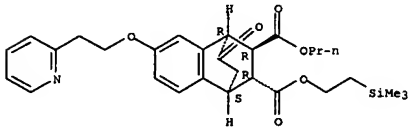
RN 439798-98-8 CAPLUS
CN 1,4-Ethanonaphthalene-2,3-dicarboxylic acid,
1,2,3,4-tetrahydro-9-oxo-6-(2-
phenylethoxy)-, 3-propyl 2-[2-(trimethylsilyl)ethyl] ester,
(1R,2S,3S,4S)-rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.



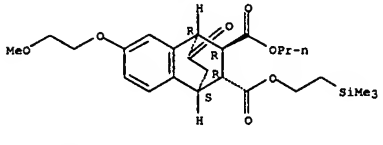
RN 439798-99-9 CAPLUS
CN 1,4-Ethanonaphthalene-2,3-dicarboxylic acid,
1,2,3,4-tetrahydro-9-oxo-6-[2-
(2-pyridinyl)ethoxy]-, 3-propyl 2-[2-(trimethylsilyl)ethyl] ester,
(1R,2S,3S,4S)-rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.



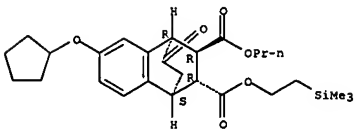
RN 439799-00-5 CAPLUS
CN 1,4-Ethanonaphthalene-2,3-dicarboxylic acid, 1,2,3,4-tetrahydro-6-(2-
methoxyethoxy)-9-oxo-, 3-propyl 2-[2-(trimethylsilyl)ethyl] ester,
(1R,2S,3S,4S)-rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.



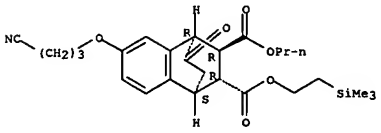
RN 439799-01-6 CAPLUS
CN 1,4-Ethanonaphthalene-2,3-dicarboxylic acid, 6-(cyclopentyloxy)-1,2,3,4-
tetrahydro-9-oxo-, 3-propyl 2-[2-(trimethylsilyl)ethyl] ester,
(1R,2S,3S,4S)-rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.



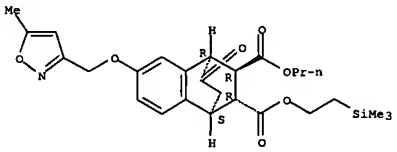
RN 439799-02-7 CAPLUS
CN 1,4-Ethanonaphthalene-2,3-dicarboxylic acid, 6-(3-cyanopropoxy)-1,2,3,4-tetrahydro-9-oxo-, 3-propyl 2-[2-(trimethylsilyl)ethyl] ester, (1R,2S,3S,4S)-rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.



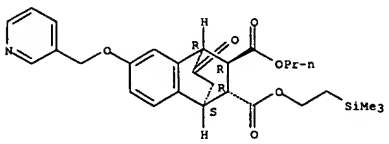
RN 439799-03-8 CAPLUS
CN 1,4-Ethanonaphthalene-2,3-dicarboxylic acid, 1,2,3,4-tetrahydro-6-[(5-methyl-3-isoxazolyl)methoxy]-9-oxo-, 3-propyl 2-[2-(trimethylsilyl)ethyl] ester, (1R,2S,3S,4S)-rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.



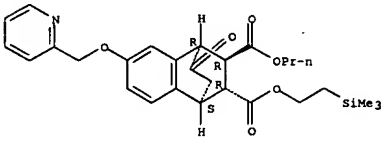
RN 439799-04-9 CAPLUS
CN 1,4-Ethanonaphthalene-2,3-dicarboxylic acid, 6-ethoxy-1,2,3,4-tetrahydro-9-oxo-, 3-propyl 2-[2-(trimethylsilyl)ethyl] ester, (1R,2S,3S,4S)-rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.



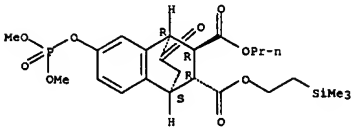
RN 439799-08-3 CAPLUS
CN 1,4-Ethanonaphthalene-2,3-dicarboxylic acid, 1,2,3,4-tetrahydro-9-oxo-6-(2-pyridinylmethoxy)-, 3-propyl 2-[2-(trimethylsilyl)ethyl] ester, (1R,2S,3S,4S)-rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.



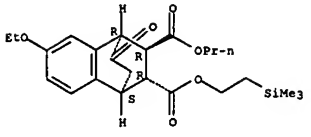
RN 439799-09-4 CAPLUS
CN 1,4-Ethanonaphthalene-2,3-dicarboxylic acid, 6-[(dimethoxyphosphinyl)oxy]-1,2,3,4-tetrahydro-9-oxo-, 3-propyl 2-[2-(trimethylsilyl)ethyl] ester, (1R,2S,3S,4S)-rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.



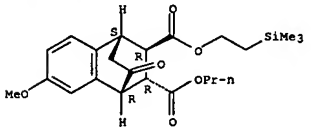
RN 439799-11-8 CAPLUS
CN 1,4-Ethanonaphthalene-2,3-dicarboxylic acid, 1,2,3,4-tetrahydro-6-hydroxy-9-(methylhydrazono)-, 3-propyl 2-[2-(trimethylsilyl)ethyl] ester, (1R,2S,3S,4S,9E)-rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.
Double bond geometry as shown.



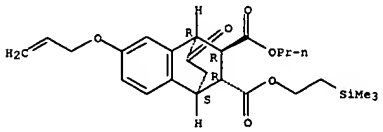
RN 439799-05-0 CAPLUS
CN 1,4-Ethanonaphthalene-2,3-dicarboxylic acid, 1,2,3,4-tetrahydro-6-methoxy-9-oxo-, 3-propyl 2-[2-(trimethylsilyl)ethyl] ester, (1R,2S,3S,4S)-rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.



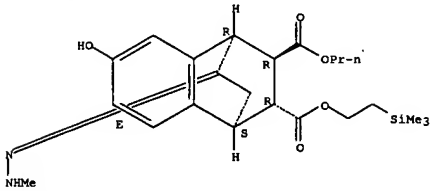
RN 439799-06-1 CAPLUS
CN 1,4-Ethanonaphthalene-2,3-dicarboxylic acid, 1,2,3,4-tetrahydro-9-oxo-6-(2-propenyloxy)-, 3-propyl 2-[2-(trimethylsilyl)ethyl] ester, (1R,2S,3S,4S)-rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.



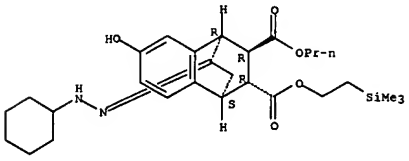
RN 439799-07-2 CAPLUS
CN 1,4-Ethanonaphthalene-2,3-dicarboxylic acid, 1,2,3,4-tetrahydro-9-oxo-6-(3-pyridinylmethoxy)-, 3-propyl 2-[2-(trimethylsilyl)ethyl] ester, (1R,2S,3S,4S)-rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.



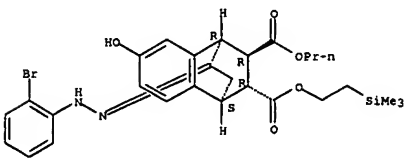
RN 439799-12-9 CAPLUS
CN 1,4-Ethanonaphthalene-2,3-dicarboxylic acid, 9-(cyclohexylhydrazono)-1,2,3,4-tetrahydro-6-hydroxy-, 3-propyl 2-[2-(trimethylsilyl)ethyl] ester, (1R,2S,3S,4S)-rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.
Double bond geometry unknown.



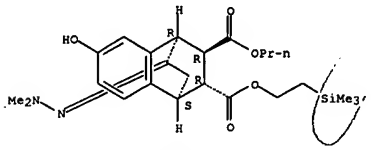
RN 439799-13-0 CAPLUS
CN 1,4-Ethanonaphthalene-2,3-dicarboxylic acid, 9-[(2-bromophenyl)hydrazono]-1,2,3,4-tetrahydro-6-hydroxy-, 3-propyl 2-[2-(trimethylsilyl)ethyl] ester, (1R,2S,3S,4S)-rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.
Double bond geometry unknown.



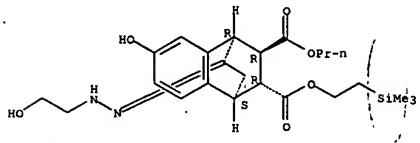
RN 439799-14-1 CAPLUS
CN 1,4-Ethanonaphthalene-2,3-dicarboxylic acid,
9-(dimethylhydrazono)-1,2,3,4-
tetrahydro-6-hydroxy-, 3-propyl 2-[2-(trimethylsilyl)ethyl] ester,
(1R,2S,3S,4S)-rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.
Double bond geometry unknown.



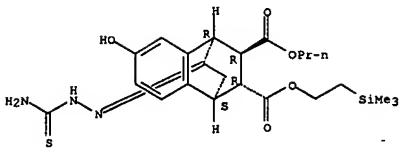
RN 439799-15-2 CAPLUS
CN 1,4-Ethanonaphthalene-2,3-dicarboxylic acid,
1,2,3,4-tetrahydro-6-hydroxy-
9-[(2-hydroxyethyl)hydrazono]-, 3-propyl 2-[2-(trimethylsilyl)ethyl]
ester, (1R,2S,3S,4S)-rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.
Double bond geometry unknown.



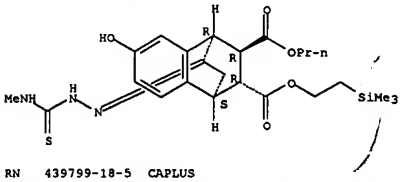
RN 439799-16-3 CAPLUS
CN 1,4-Ethanonaphthalene-2,3-dicarboxylic acid, 9-
[(aminothioxomethyl)hydrazono]-1,2,3,4-tetrahydro-6-hydroxy-, 3-propyl
2-[2-(trimethylsilyl)ethyl] ester, (1R,2S,3S,4S)-rel- (9CI) (CA INDEX
NAME)

Relative stereochemistry.
Double bond geometry unknown.



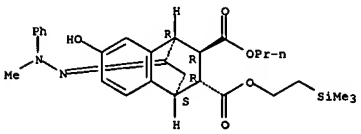
RN 439799-17-4 CAPLUS
CN 1,4-Ethanonaphthalene-2,3-dicarboxylic acid,
1,2,3,4-tetrahydro-6-hydroxy-
9-[[(methylamino)thioxomethyl]hydrazono]-, 3-propyl 2-[2-
(trimethylsilyl)ethyl] ester, (1R,2S,3S,4S)-rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.
Double bond geometry unknown.



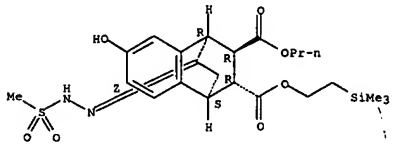
RN 439799-18-5 CAPLUS
CN 1,4-Ethanonaphthalene-2,3-dicarboxylic acid,
1,2,3,4-tetrahydro-6-hydroxy-
9-(methylphenylhydrazono)-, 3-propyl 2-[2-(trimethylsilyl)ethyl] ester,
(1R,2S,3S,4S)-rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.
Double bond geometry unknown.



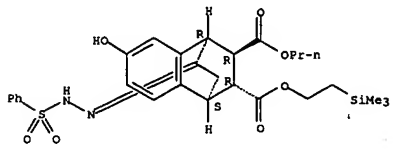
RN 439799-19-6 CAPLUS
CN 1,4-Ethanonaphthalene-2,3-dicarboxylic acid,
1,2,3,4-tetrahydro-6-hydroxy-
9-[(methylsulfonyl)hydrazono]-, 3-propyl 2-[2-(trimethylsilyl)ethyl]
ester, (1R,2S,3S,4S,9Z)-rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.
Double bond geometry as shown.



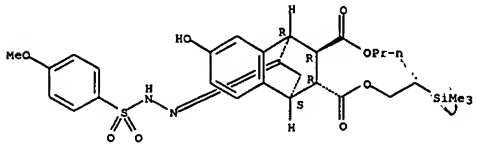
RN 439799-20-9 CAPLUS
CN 1,4-Ethanonaphthalene-2,3-dicarboxylic acid,
1,2,3,4-tetrahydro-6-hydroxy-
9-[(phenylsulfonyl)hydrazono]-, 3-propyl 2-[2-(trimethylsilyl)ethyl]
ester, (1R,2S,3S,4S)-rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.
Double bond geometry unknown.



RN 439799-21-0 CAPLUS
CN 1,4-Ethanonaphthalene-2,3-dicarboxylic acid,
1,2,3,4-tetrahydro-6-hydroxy-
9-[[(4-methoxyphenyl)sulfonyl]hydrazono]-, 3-propyl 2-[2-
(trimethylsilyl)ethyl] ester, (1R,2S,3S,4S)-rel- (9CI) (CA INDEX NAME)

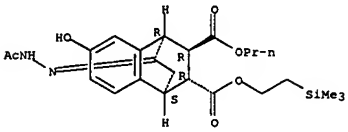
Relative stereochemistry.
Double bond geometry unknown.



RN 439799-22-1 CAPLUS
CN 1,4-Ethanonaphthalene-2,3-dicarboxylic acid, 9-(acetylhydrazono)-1,2,3,4-
tetrahydro-6-hydroxy-, 3-propyl 2-[2-(trimethylsilyl)ethyl] ester,

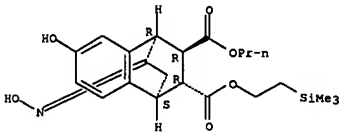
(1R,2S,3S,4S)-rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.
Double bond geometry unknown.



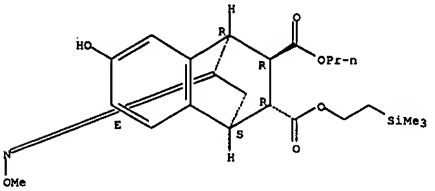
RN 439799-23-2 CAPLUS
CN 1,4-Ethanonaphthalene-2,3-dicarboxylic acid,
1,2,3,4-tetrahydro-6-hydroxy-
9-(hydroxyimino)-, 3-propyl 2-[2-(trimethylsilyl)ethyl] ester,
(1R,2S,3S,4S)-rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.
Double bond geometry unknown.



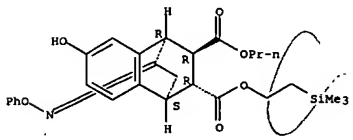
RN 439799-24-3 CAPLUS
CN 1,4-Ethanonaphthalene-2,3-dicarboxylic acid,
1,2,3,4-tetrahydro-6-hydroxy-
9-(methoxyimino)-, 3-propyl 2-[2-(trimethylsilyl)ethyl] ester,
(1R,2S,3S,4S,9E)-rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.
Double bond geometry as shown.



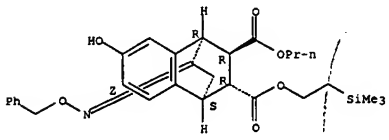
RN 439799-25-4 CAPLUS
CN 1,4-Ethanonaphthalene-2,3-dicarboxylic acid,
1,2,3,4-tetrahydro-6-hydroxy-
9-(phenoxyimino)-, 3-propyl 2-[2-(trimethylsilyl)ethyl] ester,
(1R,2S,3S,4S)-rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.
Double bond geometry unknown.



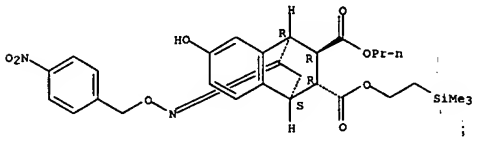
RN 439799-26-5 CAPLUS
CN 1,4-Ethanonaphthalene-2,3-dicarboxylic acid,
1,2,3,4-tetrahydro-6-hydroxy-
9-[(phenylmethoxy)imino]-, 3-propyl 2-[2-(trimethylsilyl)ethyl] ester,
(1R,2S,3S,4S,9Z)-rel- (9CI) (CA INDEX NAME)

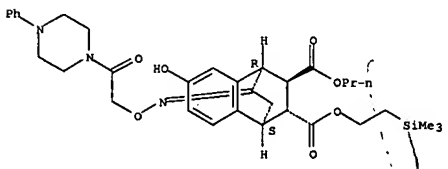
Relative stereochemistry.
Double bond geometry as shown.



RN 439799-27-6 CAPLUS
CN 1,4-Ethanonaphthalene-2,3-dicarboxylic acid,
1,2,3,4-tetrahydro-6-hydroxy-
9-[[(4-nitrophenyl)methoxy]imino]-, 3-propyl 2-[2-(trimethylsilyl)ethyl]
ester, (1R,2S,3S,4S)-rel- (9CI) (CA INDEX NAME)

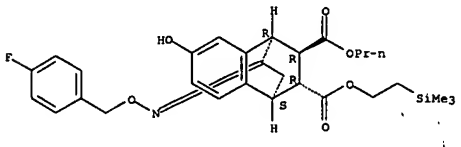
Relative stereochemistry.
Double bond geometry unknown.





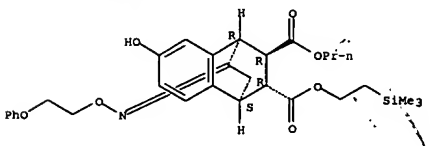
RN 439799-31-2 CAPLUS
CN 1,4-Ethanonaphthalene-2,3-dicarboxylic acid, 9-[[(4-
fluorophenyl)methoxy]imino]-1,2,3,4-tetrahydro-6-hydroxy-, 3-propyl
2-[2-(trimethylsilyl)ethyl] ester, (1R,2S,3S,4S)-rel- (9CI) (CA INDEX
NAME)

Relative stereochemistry.
Double bond geometry unknown.



RN 439799-32-3 CAPLUS
CN 1,4-Ethanonaphthalene-2,3-dicarboxylic acid,
1,2,3,4-tetrahydro-6-hydroxy-
9-[(2-phenoxyethoxy)imino]-, 3-propyl 2-[2-(trimethylsilyl)ethyl] ester,
(1R,2S,3S,4S)-rel- (9CI) (CA INDEX NAME)

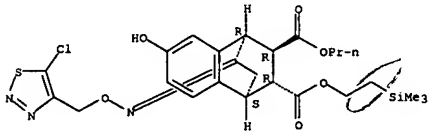
Relative stereochemistry.
Double bond geometry unknown.



RN 439799-33-4 CAPLUS
CN 1,4-Ethanonaphthalene-2,3-dicarboxylic acid,
1,2,3,4-tetrahydro-6-hydroxy-
9-[(2-propenyloxy)imino]-, 3-propyl 2-[2-(trimethylsilyl)ethyl] ester,
(1R,2S,3S,4S)-rel- (9CI) (CA INDEX NAME)

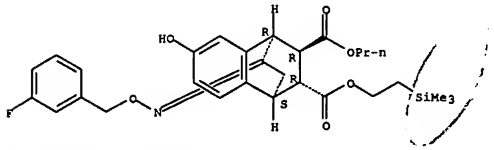
RN 439799-28-7 CAPLUS
CN 1,4-Ethanonaphthalene-2,3-dicarboxylic acid, 9-[[(5-chloro-1,2,3-
thiadiazol-4-yl)methoxy]imino]-1,2,3,4-tetrahydro-6-hydroxy-, 3-propyl
2-[2-(trimethylsilyl)ethyl] ester, (1R,2S,3S,4S)-rel- (9CI) (CA INDEX
NAME)

Relative stereochemistry.
Double bond geometry unknown.



RN 439799-29-8 CAPLUS
CN 1,4-Ethanonaphthalene-2,3-dicarboxylic acid, 9-[[(3-
fluorophenyl)methoxy]imino]-1,2,3,4-tetrahydro-6-hydroxy-, 3-propyl
2-[2-(trimethylsilyl)ethyl] ester, (1R,2S,3S,4S)-rel- (9CI) (CA INDEX
NAME)

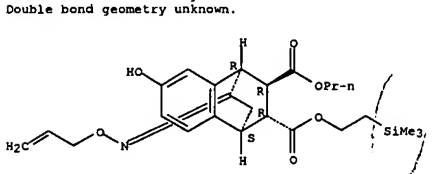
Relative stereochemistry.
Double bond geometry unknown.



RN 439799-30-1 CAPLUS
CN 1,4-Ethanonaphthalene-2,3-dicarboxylic acid,
1,2,3,4-tetrahydro-6-hydroxy-
9-[[2-oxo-2-(4-phenyl-1-piperazinyl)ethoxy]imino]-, 3-propyl
2-[2-(trimethylsilyl)ethyl] ester, (1R,2S,3S,4S,9E)-rel- (9CI) (CA INDEX
NAME)

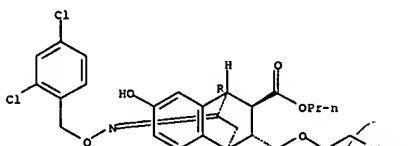
Relative stereochemistry.
Double bond geometry as shown.

Relative stereochemistry.
Double bond geometry unknown.



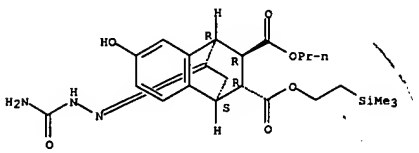
RN 439799-34-5 CAPLUS
CN 1,4-Ethanonaphthalene-2,3-dicarboxylic acid, 9-[[(2,4-
dichlorophenyl)methoxy]imino]-1,2,3,4-tetrahydro-6-hydroxy-, 3-propyl
2-[2-(trimethylsilyl)ethyl] ester, (1R,2S,3S,4S,9E)-rel- (9CI) (CA INDEX
NAME)

Relative stereochemistry.
Double bond geometry as shown.



RN 439799-35-6 CAPLUS
CN 1,4-Ethanonaphthalene-2,3-dicarboxylic acid,
9-[(aminocarbonyl)hydrazono]-
1,2,3,4-tetrahydro-6-hydroxy-, 3-propyl 2-[2-(trimethylsilyl)ethyl]
ester,
(1R,2S,3S,4S)-rel- (9CI) (CA INDEX NAME)

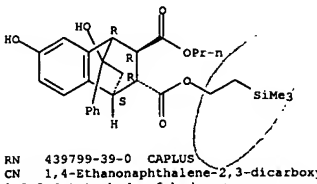
Relative stereochemistry.
Double bond geometry unknown.



L12 ANSWER 1 OF 16 CAPLUS COPYRIGHT 2003 ACS on STN (Continued)

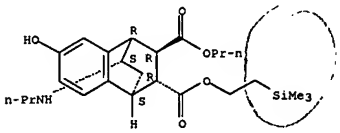
RN 439799-38-9 CAPLUS
CN 1,4-Ethanonaphthalene-2,3-dicarboxylic acid, 1,2,3,4-tetrahydro-6,9-dihydroxy-9-phenyl-, 3-propyl 2-[2-(trimethylsilyl)ethyl] ester, (1R,2S,3S,4S)-rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.



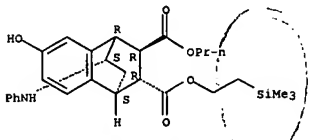
RN 439799-39-0 CAPLUS
CN 1,4-Ethanonaphthalene-2,3-dicarboxylic acid, 1,2,3,4-tetrahydro-6-hydroxy-9-(propylamino)-, 3-propyl 2-[2-(trimethylsilyl)ethyl] ester, (1R,2S,3S,4S,9R)-rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.



RN 439799-42-5 CAPLUS
CN 1,4-Ethanonaphthalene-2,3-dicarboxylic acid, 1,2,3,4-tetrahydro-6-hydroxy-9-(phenylamino)-, 3-propyl 2-[2-(trimethylsilyl)ethyl] ester, (1R,2S,3S,4S,9R)-rel- (9CI) (CA INDEX NAME)

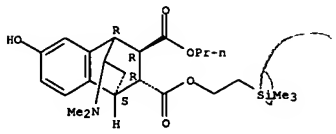
Relative stereochemistry.



RN 439799-43-6 CAPLUS
CN 1,4-Ethanonaphthalene-2,3-dicarboxylic acid, 9-(dimethylamino)-1,2,3,4-tetrahydro-6-hydroxy-, 3-propyl 2-[2-(trimethylsilyl)ethyl] ester, (1R,2S,3S,4S)-rel- (9CI) (CA INDEX NAME)

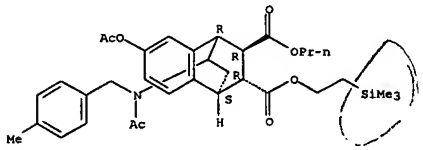
L12 ANSWER 1 OF 16 CAPLUS COPYRIGHT 2003 ACS on STN (Continued)

Relative stereochemistry.



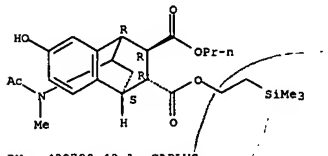
RN 439799-44-7 CAPLUS
CN 1,4-Ethanonaphthalene-2,3-dicarboxylic acid, 9-[acetyl[(4-methylphenyl)methyl]amino]-6-(acetyloxy)-1,2,3,4-tetrahydro-, 3-propyl 2-[2-(trimethylsilyl)ethyl] ester, (1R,2S,3S,4S)-rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.



RN 439799-46-9 CAPLUS
CN 1,4-Ethanonaphthalene-2,3-dicarboxylic acid, 9-(acetylmethylamino)-1,2,3,4-tetrahydro-6-hydroxy-, 3-propyl 2-[2-(trimethylsilyl)ethyl] ester, (1R,2S,3S,4S)-rel- (9CI) (CA INDEX NAME)

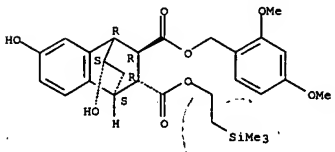
Relative stereochemistry.



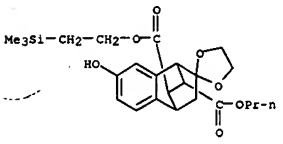
RN 439799-48-1 CAPLUS
CN 1,4-Ethanonaphthalene-2,3-dicarboxylic acid, 1,2,3,4-tetrahydro-6,9-dihydroxy-, 3-[(2,4-dimethoxyphenyl)methyl] 2-[2-(trimethylsilyl)ethyl] ester, (1R,2S,3S,4S,9R)-rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.

L12 ANSWER 1 OF 16 CAPLUS COPYRIGHT 2003 ACS on STN (Continued)

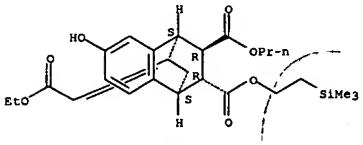


RN 439799-49-2 CAPLUS
CN Spiro[1,3-dioxolane-2,2'(1'H)-[1,4]ethanonaphthalene]-9',10'-dicarboxylic acid, 3',4'-dihydro-7'-hydroxy-, 10'-propyl 9'-[2-(trimethylsilyl)ethyl] ester, (1'R,4'S,9'R,10'R)-rel- (9CI) (CA INDEX NAME)



RN 439799-50-5 CAPLUS
CN 1,4-Ethanonaphthalene-2,3-dicarboxylic acid, 9-(2-ethoxy-2-oxoethylidene)-1,2,3,4-tetrahydro-6-hydroxy-, 3-propyl 2-[2-(trimethylsilyl)ethyl] ester, (1R,2S,3S,4R)-rel- (9CI) (CA INDEX NAME)

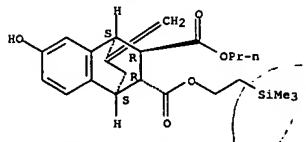
Relative stereochemistry.
Double bond geometry unknown.



RN 439799-51-6 CAPLUS
CN 1,4-Ethanonaphthalene-2,3-dicarboxylic acid, 1,2,3,4-tetrahydro-6-hydroxy-9-methylene-, 3-propyl 2-[2-(trimethylsilyl)ethyl] ester, (1R,2S,3S,4R)-rel- (9CI) (CA INDEX NAME)

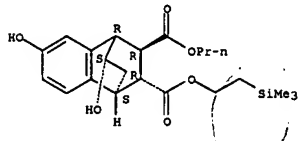
Relative stereochemistry.

L12 ANSWER 1 OF 16 CAPLUS COPYRIGHT 2003 ACS on STN (Continued)



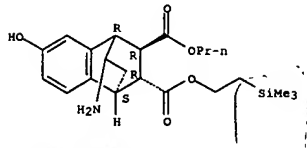
RN 439799-52-7 CAPLUS
CN 1,4-Ethanonaphthalene-2,3-dicarboxylic acid, 1,2,3,4-tetrahydro-6,9-dihydroxy-, 3-propyl 2-[2-(trimethylsilyl)ethyl] ester, (1R,2S,3S,4S,9R)-rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.



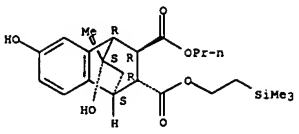
RN 439799-53-8 CAPLUS
CN 1,4-Ethanonaphthalene-2,3-dicarboxylic acid, 9-amino-1,2,3,4-tetrahydro-6-hydroxy-, 3-propyl 2-[2-(trimethylsilyl)ethyl] ester, (1R,2S,3S,4S)-rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.



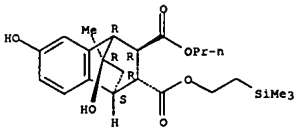
RN 439799-54-9 CAPLUS
CN 1,4-Ethanonaphthalene-2,3-dicarboxylic acid, 1,2,3,4-tetrahydro-6,9-dihydroxy-9-methyl-, 3-propyl 2-[2-(trimethylsilyl)ethyl] ester, (1R,2S,3S,4S,9R)-rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.



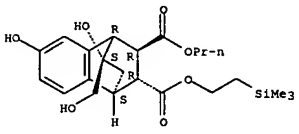
RN 439799-56-1 CAPLUS
CN 1,4-Ethanonaphthalene-2,3-dicarboxylic acid, 1,2,3,4-tetrahydro-6,9-dihydroxy-9-methyl-, 3-propyl 2-[2-(trimethylsilyl)ethyl] ester, (1R,2S,3S,4S,9S)-rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.



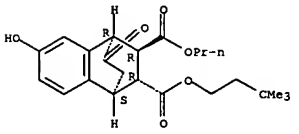
RN 439799-58-3 CAPLUS
CN 1,4-Ethanonaphthalene-2,3-dicarboxylic acid, 1,2,3,4-tetrahydro-6,9-dihydroxy-9-(hydroxymethyl)-, 3-propyl 2-[2-(trimethylsilyl)ethyl] ester, (1R,2S,3S,4S,9R)-rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.



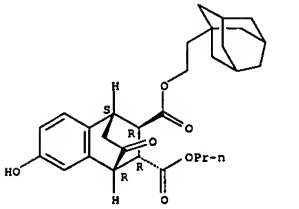
RN 439799-59-4 CAPLUS
CN 1,4-Ethanonaphthalene-2-carboxylic acid, 1,2,3,4-tetrahydro-7-hydroxy-3-[[methyl(phenylmethyl)amino]carbonyl]-10-oxo-, 2-propenyl ester, (1R,2R,3R,4S)-rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.



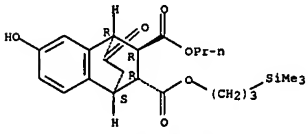
RN 439799-68-5 CAPLUS
CN 1,4-Ethanonaphthalene-2,3-dicarboxylic acid, 1,2,3,4-tetrahydro-6-hydroxy-9-oxo-, 3-propyl 2-(2-tricyclo[3.3.1.13,7]dec-1-ylethyl) ester, (1R,2S,3S,4S)-rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.

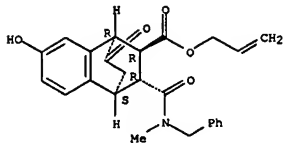


RN 439799-69-6 CAPLUS
CN 1,4-Ethanonaphthalene-2,3-dicarboxylic acid, 1,2,3,4-tetrahydro-6-hydroxy-9-oxo-, 3-propyl 2-[3-(trimethylsilyl)propyl] ester, (1R,2S,3S,4S)-rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.

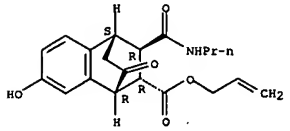


RN 439799-71-0 CAPLUS
CN 1,4-Ethanonaphthalene-2,3-dicarboxylic acid, 6-[[4-(carboxymethoxy)phenyl]methoxy]-1,2,3,4-tetrahydro-9-oxo-, 3-(2-propenyl) 2-[2-(trimethylsilyl)ethyl] ester, (1R,2S,3S,4S)-rel- (9CI) (CA INDEX



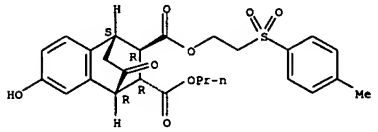
RN 439799-60-7 CAPLUS
CN 1,4-Ethanonaphthalene-2-carboxylic acid, 1,2,3,4-tetrahydro-7-hydroxy-10-oxo-3-[(propylamino)carbonyl]-, 2-propenyl ester, (1R,2R,3R,4S)-rel- (9CI)
(CA INDEX NAME)

Relative stereochemistry.



RN 439799-64-1 CAPLUS
CN 1,4-Ethanonaphthalene-2,3-dicarboxylic acid, 1,2,3,4-tetrahydro-6-hydroxy-9-oxo-, 2-[2-[(4-methylphenyl)sulfonyl]ethyl] 3-propyl ester, (1R,2S,3S,4S)-rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.

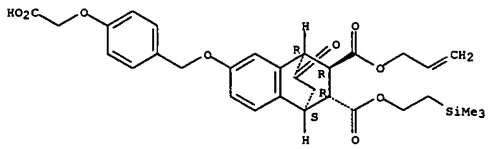


RN 439799-66-3 CAPLUS
CN 1,4-Ethanonaphthalene-2,3-dicarboxylic acid, 1,2,3,4-tetrahydro-6-hydroxy-9-oxo-, 2-(3,3-dimethylbutyl) 3-propyl ester, (1R,2S,3S,4S)-rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.

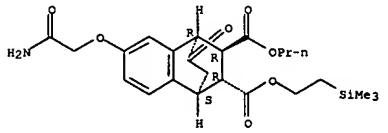
NAME)

Relative stereochemistry.



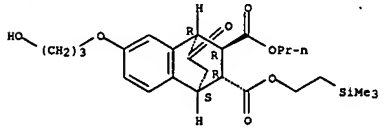
RN 439799-75-4 CAPLUS
CN 1,4-Ethanonaphthalene-2,3-dicarboxylic acid, 6-(2-amino-2-oxoethoxy)-1,2,3,4-tetrahydro-9-oxo-, 3-propyl 2-[2-(trimethylsilyl)ethyl] ester, (1R,2S,3S,4S)-rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.



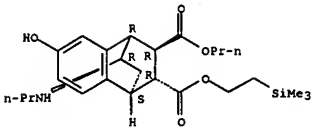
RN 439799-77-6 CAPLUS
CN 1,4-Ethanonaphthalene-2,3-dicarboxylic acid, 1,2,3,4-tetrahydro-6-(3-hydroxypropoxy)-9-oxo-, 3-propyl 2-[2-(trimethylsilyl)ethyl] ester, (1R,2S,3S,4S)-rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.



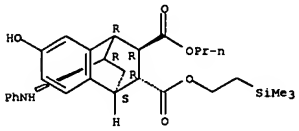
RN 439799-82-3 CAPLUS
CN 1,4-Ethanonaphthalene-2,3-dicarboxylic acid, 1,2,3,4-tetrahydro-6-hydroxy-9-(propylamino)-, 3-propyl 2-[2-(trimethylsilyl)ethyl] ester, (1R,2S,3S,4S,9S)-rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.



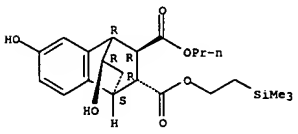
RN 439799-88-9 CAPLUS
CN 1,4-Ethanonaphthalene-2,3-dicarboxylic acid,
1,2,3,4-tetrahydro-6-hydroxy-
9-(phenylamino)-, 3-propyl 2-[2-(trimethylsilyl)ethyl] ester,
(1R,2S,3S,4S,9S)-rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.



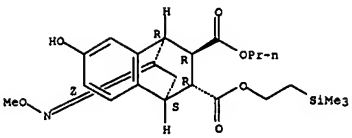
RN 439799-91-4 CAPLUS
CN 1,4-Ethanonaphthalene-2,3-dicarboxylic acid, 1,2,3,4-tetrahydro-6,9-dihydroxy-, 3-propyl 2-[2-(trimethylsilyl)ethyl] ester,
(1R,2S,3S,4S,9S)-rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.



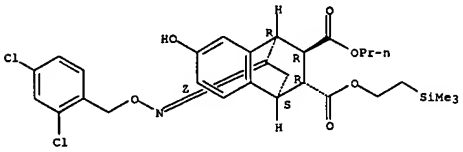
RN 439800-16-5 CAPLUS
CN 1,4-Ethanonaphthalene-2,3-dicarboxylic acid,
1,2,3,4-tetrahydro-6-hydroxy-
9-(methoxyimino)-, 3-propyl 2-[2-(trimethylsilyl)ethyl] ester,
(1R,2S,3S,4S,9Z)-rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.
Double bond geometry as shown.



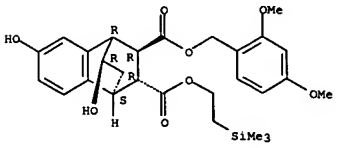
RN 439800-17-6 CAPLUS
CN 1,4-Ethanonaphthalene-2,3-dicarboxylic acid, 9-[[(2,4-dichlorophenyl)methoxy]imino]-1,2,3,4-tetrahydro-6-hydroxy-, 3-propyl 2-[2-(trimethylsilyl)ethyl] ester, (1R,2S,3S,4S,9Z)-rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.
Double bond geometry as shown.



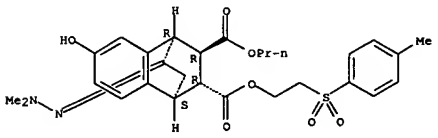
RN 439800-18-7 CAPLUS
CN 1,4-Ethanonaphthalene-2,3-dicarboxylic acid, 1,2,3,4-tetrahydro-6,9-dihydroxy-, 3-[(2,4-dimethoxyphenyl)methyl] 2-[2-(trimethylsilyl)ethyl] ester, (1R,2S,3S,4S,9S)-rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.



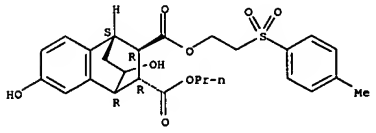
RN 439800-20-1 CAPLUS
CN 1,4-Ethanonaphthalene-2,3-dicarboxylic acid,
9-(dimethylhydrazono)-1,2,3,4-tetrahydro-6-hydroxy-, 2-[2-[(4-methylphenyl)sulfonyl]ethyl] 3-propyl ester, (1R,2S,3S,4S)-rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.
Double bond geometry unknown.



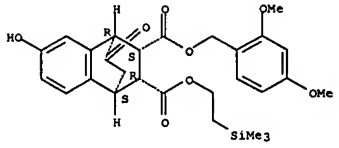
RN 439800-21-2 CAPLUS
CN 1,4-Ethanonaphthalene-2,3-dicarboxylic acid, 1,2,3,4-tetrahydro-6,9-dihydroxy-, 2-[2-[(4-methylphenyl)sulfonyl]ethyl] 3-propyl ester,
(1R,2S,3S,4S)-rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.



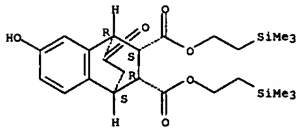
RN 439800-22-3 CAPLUS
CN 1,4-Ethanonaphthalene-2,3-dicarboxylic acid,
1,2,3,4-tetrahydro-6-hydroxy-
9-oxo-, 3-[(2,4-dimethoxyphenyl)methyl] 2-[2-(trimethylsilyl)ethyl] ester,
(1R,2S,3R,4S)-rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.



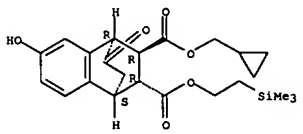
RN 439800-23-4 CAPLUS
CN 1,4-Ethanonaphthalene-2,3-dicarboxylic acid,
1,2,3,4-tetrahydro-6-hydroxy-
9-oxo-, bis[2-(trimethylsilyl)ethyl] ester, (1R,2S,3R,4S)-rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.



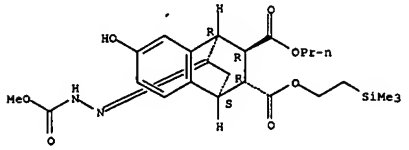
RN 439800-24-5 CAPLUS
CN 1,4-Ethanonaphthalene-2,3-dicarboxylic acid,
1,2,3,4-tetrahydro-6-hydroxy-
9-oxo-, 3-(cyclopropylmethyl) 2-[2-(trimethylsilyl)ethyl] ester,
(1R,2S,3S,4S)-rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.



RN 439800-26-7 CAPLUS
CN 1,4-Ethanonaphthalene-2,3-dicarboxylic acid,
1,2,3,4-tetrahydro-6-hydroxy-
9-[(methoxycarbonyl)hydrazono]-, 3-propyl 2-[2-(trimethylsilyl)ethyl] ester, (1R,2S,3S,4S)-rel- (9CI) (CA INDEX NAME)

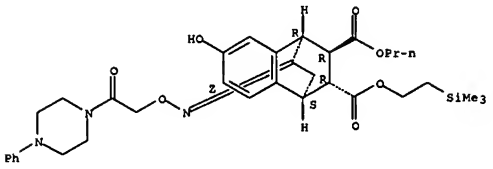
Relative stereochemistry.
Double bond geometry unknown.



RN 439800-27-8 CAPLUS
CN 1,4-Ethanonaphthalene-2,3-dicarboxylic acid,
1,2,3,4-tetrahydro-6-hydroxy-
9-[[2-oxo-2-(4-phenyl-1-piperazinyl)ethoxy]imino]-, 3-propyl 2-[2-(trimethylsilyl)ethyl] ester, (1R,2S,3S,4S,9Z)-rel- (9CI) (CA INDEX NAME)

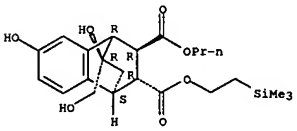
Relative stereochemistry.

Double bond geometry as shown.



RN 439800-28-9 CAPLUS
CN 1,4-Ethanonaphthalene-2,3-dicarboxylic acid, 1,2,3,4-tetrahydro-6,9-dihydroxy-9-(hydroxymethyl)-, 3-propyl 2-[2-(trimethylsilyl)ethyl] ester, (1R,2S,3S,4S,9S)-rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.

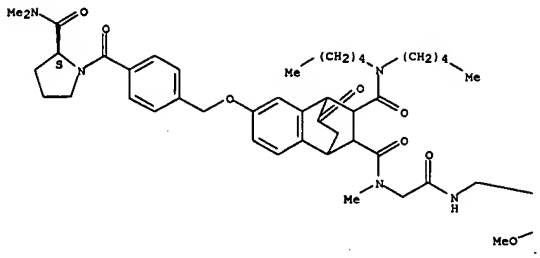


RN 439919-18-3 CAPLUS
CN 1,4-Ethanonaphthalene-2,3-dicarboxamide, 6-[[4-[[(2S)-2-

[(dimethylamino)carbonyl]-1-pyrrolidinyl]carbonyl]phenyl]methoxy]-1,2,3,4-tetrahydro-N2-methyl-9-oxo-N2-[2-oxo-2-[[(2,4,6-trimethoxyphenyl)methyl]amino]ethyl]-N3,N3-dipentyl- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

PAGE 1-A



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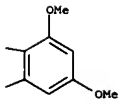
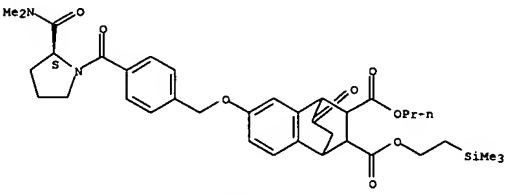


RN 439919-19-4 CAPLUS
CN 1,4-Ethanonaphthalene-2,3-dicarboxylic acid, 6-[[4-[[(2S)-2-

[(dimethylamino)carbonyl]-1-pyrrolidinyl]carbonyl]phenyl]methoxy]-1,2,3,4-tetrahydro-9-oxo-, 3-propyl 2-(trimethylsilyl)ethyl ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.

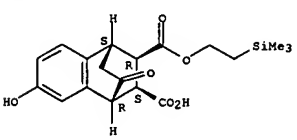


IT **439799-94-7P 439799-96-9P 439800-03-0P**
439800-13-2P 439800-19-8P 439800-29-0P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(intermediate; prepn. of benzobicyclobutanes derived from Diels-Alder adduct of 2,7-dihydroxynaphthalene and maleic anhydride as inhibitors of TNF-.alpha., IL-8)
RN 439799-94-7 CAPLUS
CN 1,4-Ethanonaphthalene-2,3-dicarboxylic acid, 1,2,3,4-tetrahydro-6-hydroxy-9-oxo-, 2-[2-(trimethylsilyl)ethyl] ester, (1R,2S,3R,4S)-rel-, compd. with
N-cyclohexylcyclohexanamine (1:1) (9CI) (CA INDEX NAME)

CM 1

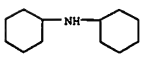
CRN 439798-61-5
CMF C19 H24 O6 Si

Relative stereochemistry.



CM 2

CRN 101-83-7
CMF C12 H23 N

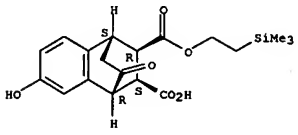


RN 439799-96-9 CAPLUS
CN 1,4-Ethanonaphthalene-2,3-dicarboxylic acid, 1,2,3,4-tetrahydro-6-hydroxy-9-oxo-, 2-[2-(trimethylsilyl)ethyl] ester, (1R,2S,3R,4S)-rel-, compd. with
2-propanamine (1:1) (9CI) (CA INDEX NAME)

CM 1

CRN 439798-61-5
CMF C19 H24 O6 Si

Relative stereochemistry.

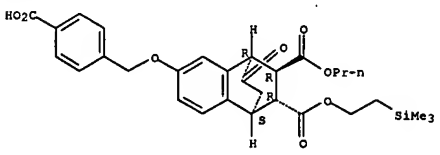


CM 2

CRN 75-31-0
CMF C3 H9 N

RN 439800-03-0 CAPLUS
CN 1,4-Ethanonaphthalene-2,3-dicarboxylic acid, 6-[(4-carboxyphenyl)methoxy]-1,2,3,4-tetrahydro-9-oxo-, 3-propyl 2-[2-(trimethylsilyl)ethyl] ester, (1R,2S,3S,4S)-rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.



RN 439800-13-2 CAPLUS
CN 1,4-Ethanonaphthalene-2,3-dicarboxylic acid, 1,2,3,4-tetrahydro-6-[[4-[2-

L12 ANSWER 1 OF 16 CAPLUS COPYRIGHT 2003 ACS on STN (Continued)
[2-[(4-methylphenyl)sulfonyl]ethoxy]-2-oxoethoxy]phenyl]methoxy]-9-oxo-,
3-(2-propenyl) 2-[2-(trimethylsilyl)ethyl] ester, (1R,2S,3S,4S)-rel-
(9CI)
(CA INDEX NAME)

Relative stereochemistry.

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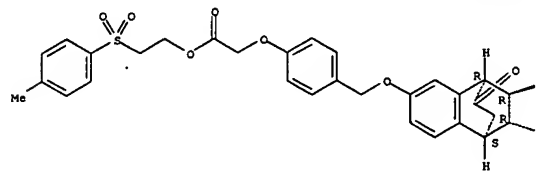
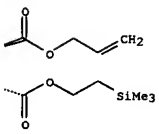
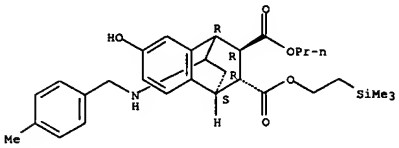


PAGE 1-B



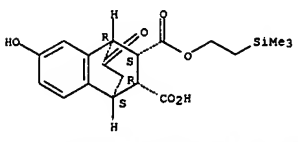
RN 439800-19-8 CAPLUS
CN 1,4-Ethanonaphthalene-2,3-dicarboxylic acid,
1,2,3,4-tetrahydro-6-hydroxy-
9-[[(4-methylphenyl)methyl]amino]-, 3-propyl 2-[2-(trimethylsilyl)ethyl]
ester, (1R,2S,3S,4S)-rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.



L12 ANSWER 2 OF 16 CAPLUS COPYRIGHT 2003 ACS on STN
AB A novel series of TNF-.alpha. inhibitors based on a benzobicyclooctane scaffold was reported. The compds. displayed good potency in inhibiting TNF-.alpha. induced apoptosis and NF.kappa.B activation. Addnl., they were selective for TNF-.alpha. as they did not inhibit apoptosis induced by sol. Fas ligand. The compds. described here can act as leads for future medicinal chem. efforts and may also be useful tools for elucidating the TNF-.alpha. signaling pathway.
ACCESSION NUMBER: 2002:211239 CAPLUS
DOCUMENT NUMBER: 137:288467
TITLE: Benzobicyclooctanes as novel inhibitors of TNF-.alpha. signaling
AUTHOR(S): Jackson, Randy W.; Gelinas, Richard; Baughman, Ted A.; Cox, Thomas; Howbert, J. Jeffry; Kucera, Kristin A.; Latham, John A.; Ramsdell, Fred; Singh, Devinder; Darwish, Ihab S.
CORPORATE SOURCE: Department of Chemical Genomics, Celltech R&D, Inc., Bothell, WA, 98021, USA
SOURCE: Bioorganic & Medicinal Chemistry Letters (2002), 12(7), 1093-1097
CODEN: BMCLE8; ISSN: 0960-894X
PUBLISHER: Elsevier Science Ltd.
DOCUMENT TYPE: Journal
LANGUAGE: English
IT **439798-62-6P**
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(att ohbenzobicyclooctanes as novel inhibitors of TNF-.alpha. signaling)
RN 439798-62-6 CAPLUS
CN 1,4-Ethanonaphthalene-2,3-dicarboxylic acid,
1,2,3,4-tetrahydro-6-hydroxy-
9-oxo-, 3-[2-(trimethylsilyl)ethyl] ester, (1R,2S,3R,4S)-rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.



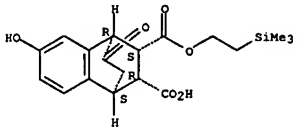
IT **439798-72-8P 439798-75-1P 439798-78-4P**
439799-66-3P 439799-69-6P 468086-81-9P
RL: PAC (Pharmacological activity); RCT (Reactant); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); RACT (Reactant or reagent); USES (Uses)
(benzobicyclooctanes as novel inhibitors of TNF-.alpha. signaling)
RN 439798-72-8 CAPLUS
CN 1,4-Ethanonaphthalene-2,3-dicarboxylic acid,
1,2,3,4-tetrahydro-6-hydroxy-
9-oxo-, 3-propyl 2-[2-(trimethylsilyl)ethyl] ester, (1R,2S,3S,4S)-rel-
(9CI) (CA INDEX NAME)

L12 ANSWER 1 OF 16 CAPLUS COPYRIGHT 2003 ACS on STN (Continued)
RN 439800-29-0 CAPLUS
CN 1,4-Ethanonaphthalene-2,3-dicarboxylic acid,
1,2,3,4-tetrahydro-6-hydroxy-
9-oxo-, 3-[2-(trimethylsilyl)ethyl] ester, (1R,2S,3R,4S)-rel-, compd.
with
N-cyclohexylcyclohexanamine (1:1) (9CI) (CA INDEX NAME)

CM 1

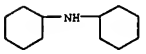
CRN 439798-62-6
CMF C19 H24 O6 Si

Relative stereochemistry.



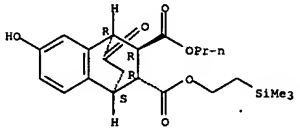
CM 2

CRN 101-83-7
CMF C12 H23 N



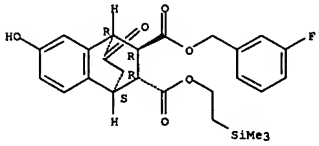
L12 ANSWER 2 OF 16 CAPLUS COPYRIGHT 2003 ACS on STN (Continued)

Relative stereochemistry.



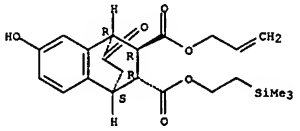
RN 439798-75-1 CAPLUS
CN 1,4-Ethanonaphthalene-2,3-dicarboxylic acid,
1,2,3,4-tetrahydro-6-hydroxy-
9-oxo-, 3-[(3-fluorophenyl)methyl] 2-[2-(trimethylsilyl)ethyl] ester,
(1R,2S,3S,4S)-rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.



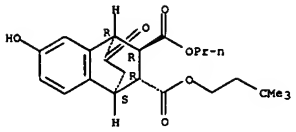
RN 439798-78-4 CAPLUS
CN 1,4-Ethanonaphthalene-2,3-dicarboxylic acid,
1,2,3,4-tetrahydro-6-hydroxy-
9-oxo-, 3-(2-propenyl) 2-[2-(trimethylsilyl)ethyl] ester,
(1R,2S,3S,4S)-rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.



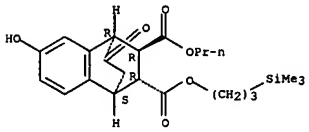
RN 439799-66-3 CAPLUS
CN 1,4-Ethanonaphthalene-2,3-dicarboxylic acid,
1,2,3,4-tetrahydro-6-hydroxy-
9-oxo-, 2-(3,3-dimethylbutyl) 3-propyl ester, (1R,2S,3S,4S)-rel- (9CI)
(CA INDEX NAME)

Relative stereochemistry.



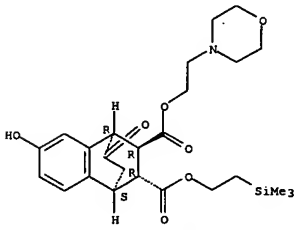
RN 439799-69-6 CAPLUS
CN 1,4-Ethanonaphthalene-2,3-dicarboxylic acid,
1,2,3,4-tetrahydro-6-hydroxy-
9-oxo-, 3-propyl 2-[3-(trimethylsilyl)propyl] ester, (1R,2S,3S,4S)-rel-
(9CI) (CA INDEX NAME)

Relative stereochemistry.



RN 468086-81-9 CAPLUS
CN 1,4-Ethanonaphthalene-2,3-dicarboxylic acid,
1,2,3,4-tetrahydro-6-hydroxy-
9-oxo-, 3-[2-(4-morpholinyl)ethyl] 2-[2-(trimethylsilyl)ethyl] ester,
(1R,2S,3S,4S)-rel- (9CI) (CA INDEX NAME)

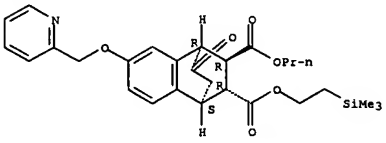
Relative stereochemistry.



IT **364778-17-6P 439798-99-9P 439799-04-9P**
439799-08-3P
RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU

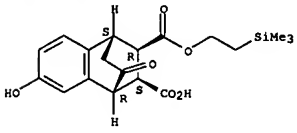
RN 439799-08-3 CAPLUS
CN 1,4-Ethanonaphthalene-2,3-dicarboxylic acid,
1,2,3,4-tetrahydro-9-oxo-6-(2-
pyridinylmethoxy)-, 3-propyl 2-[2-(trimethylsilyl)ethyl] ester,
(1R,2S,3S,4S)-rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.



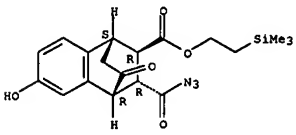
IT **439798-61-5P 439798-79-5P 468086-79-5P**
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT
(Reactant or reagent)
(benzobicyclooctanes as novel inhibitors of TNF-.alpha. signaling)
RN 439798-61-5 CAPLUS
CN 1,4-Ethanonaphthalene-2,3-dicarboxylic acid,
1,2,3,4-tetrahydro-6-hydroxy-
9-oxo-, 2-[2-(trimethylsilyl)ethyl] ester, (1R,2S,3R,4S)-rel- (9CI) (CA
INDEX NAME)

Relative stereochemistry.



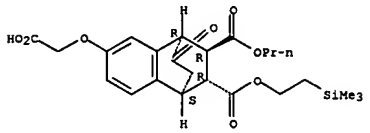
RN 439798-79-5 CAPLUS
CN 1,4-Ethanonaphthalene-2-carboxylic acid, 3-(azidocarbonyl)-1,2,3,4-
tetrahydro-6-hydroxy-9-oxo-, 2-(trimethylsilyl)ethyl ester,
(1R,2S,3S,4S)-rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.



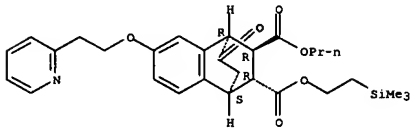
(Therapeutic use); BIOL (Biological study); PREP (Preparation); USES
(Uses)
(benzobicyclooctanes as novel inhibitors of TNF-.alpha. signaling)
RN 364778-17-6 CAPLUS
CN 1,4-Ethanonaphthalene-2,3-dicarboxylic acid, 6-(carboxymethoxy)-1,2,3,4-
tetrahydro-9-oxo-, 3-propyl 2-[2-(trimethylsilyl)ethyl] ester,
(1R,2S,3S,4S)-rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.



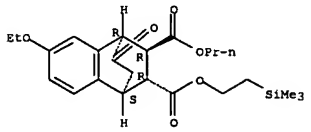
RN 439798-99-9 CAPLUS
CN 1,4-Ethanonaphthalene-2,3-dicarboxylic acid,
1,2,3,4-tetrahydro-9-oxo-6-[2-
(2-pyridinyl)ethoxy]-, 3-propyl 2-[2-(trimethylsilyl)ethyl] ester,
(1R,2S,3S,4S)-rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.



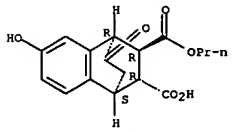
RN 439799-04-9 CAPLUS
CN 1,4-Ethanonaphthalene-2,3-dicarboxylic acid,
6-ethoxy-1,2,3,4-tetrahydro-9-
oxo-, 3-propyl 2-[2-(trimethylsilyl)ethyl] ester, (1R,2S,3S,4S)-rel-
(9CI)
(CA INDEX NAME)

Relative stereochemistry.



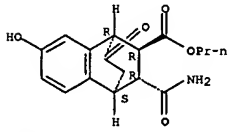
RN 468086-79-5 CAPLUS
CN 1,4-Ethanonaphthalene-2,3-dicarboxylic acid,
1,2,3,4-tetrahydro-6-hydroxy-
9-oxo-, 3-propyl ester, (1R,2S,3S,4S)-rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.



IT **468086-80-8P**
RL: SPN (Synthetic preparation); PREP (Preparation)
(benzobicyclooctanes as novel inhibitors of TNF-.alpha. signaling)
RN 468086-80-8 CAPLUS
CN 1,4-Ethanonaphthalene-2-carboxylic acid, 3-(aminocarbonyl)-1,2,3,4-
tetrahydro-7-hydroxy-10-oxo-, propyl ester, (1R,2R,3R,4S)-rel- (9CI) (CA
INDEX NAME)

Relative stereochemistry.



REFERENCE COUNT: 20 THERE ARE 20 CITED REFERENCES AVAILABLE FOR THIS
RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L12 ANSWER 3 OF 16 CAPLUS COPYRIGHT 2003 ACS on STN

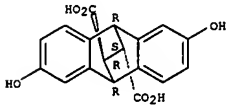
AB Several salt bridges obsd. in protein x-ray crystallog. structures showed a consistent pattern of a carboxylate, situated near the face of an arom. ring, forming a bond to an arginine residue of a ligand. To det. the driving force for these complexes, 1H NMR or potentiometric binding titrns. were performed on solns. contg. N-acetyl arginine Me ester, N-acetyl lysine Me ester, guanidinium chloride, or KCl and one member of a series of diacidic templates, which had arom. or aliph. groups placed below their carboxylates. Only templates having an arom. ring were able to form a salt bridge in water. Although most of the obvious interactions, such as ionic and cation-.pi., and ion desolvation are important factors, assocn. of an amino acid in water required the presence of the entire amino acid. This result suggests that the interaction between the aliph. portion of an amino acid and an arom. ring of a template is an important component of complexation. Arom. templates also transported N-acetyl arginine Me ester from water to 1-octanol. The results of the transport studies are discussed in terms of potential intermediate states that could lower some of the activation barriers of protein folding.

ACCESSION NUMBER: 2001:934675 CAPLUS
DOCUMENT NUMBER: 136:212473
TITLE: Carboxylates Stacked over Aromatic Rings Promote Salt Bridge Formation in Water
AUTHOR(S): Thompson, Samuel E.; Smithrud, David B.
CORPORATE SOURCE: Department of Chemistry, University of Cincinnati, Cincinnati, OH, 45221-0172, USA
SOURCE: Journal of the American Chemical Society (2002), 124(3), 442-449
CODEN: JACSAT; ISSN: 0002-7863
PUBLISHER: American Chemical Society
DOCUMENT TYPE: Journal
LANGUAGE: English

IT **402593-85-5P**
RL: BSU (Biological study, unclassified); PRP (Properties); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation)
(interaction between aliph. amino acid and arom. ring of template play role in salt bridge formation in water)

RN 402593-85-5 CAPLUS
CN 9,10-Ethanoanthracene-11,12-dicarboxylic acid, 9,10-dihydro-2,6-dihydroxy-, (9R,10R,11S,12R)-rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.



REFERENCE COUNT: 72 THERE ARE 72 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L12 ANSWER 3 OF 16 CAPLUS COPYRIGHT 2003 ACS on STN (Continued)

L12 ANSWER 4 OF 16 CAPLUS COPYRIGHT 2003 ACS on STN

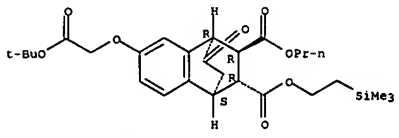
AB A method for the preferred cleavage of t-Bu esters with silica gel in refluxing toluene is reported. Good yields of the corresponding carboxylic acids are obtained, and the reaction is selective for t-Bu esters over t-Bu ethers and (trimethylsilyl)ethyl esters.

ACCESSION NUMBER: 2001:501889 CAPLUS
DOCUMENT NUMBER: 135:288318
TITLE: A mild and selective method for the cleavage of tert-butyl esters
AUTHOR(S): Jackson, R. W.
CORPORATE SOURCE: Department of Chemical Genomics, Celltech R&D, Inc., Bothell, WA, 98021, USA
SOURCE: Tetrahedron Letters (2001), 42(31), 5163-5165
CODEN: TELEAY; ISSN: 0040-4039
PUBLISHER: Elsevier Science Ltd.
DOCUMENT TYPE: Journal
LANGUAGE: English
OTHER SOURCE(S): CASREACT 135:288318

IT **364778-16-5**
RL: RCT (Reactant); RACT (Reactant or reagent)
(prepn. of carboxylic acids via a mild and selective method for the cleavage of tert-Bu esters)

RN 364778-16-5 CAPLUS
CN 1,4-Ethanonaphthalene-2,3-dicarboxylic acid, 6-[2-(1,1-dimethylethoxy)-2-oxoethoxy]-1,2,3,4-tetrahydro-9-oxo-, 3-propyl 2-[2-(trimethylsilyl)ethyl] ester, (1R,2S,3S,4S)-rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.

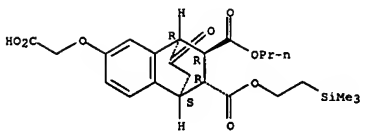


IT **364778-17-6P**
RL: SPN (Synthetic preparation); PREP (Preparation)
(prepn. of carboxylic acids via a mild and selective method for the cleavage of tert-Bu esters)

RN 364778-17-6 CAPLUS
CN 1,4-Ethanonaphthalene-2,3-dicarboxylic acid, 6-(carboxymethoxy)-1,2,3,4-tetrahydro-9-oxo-, 3-propyl 2-[2-(trimethylsilyl)ethyl] ester, (1R,2S,3S,4S)-rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.

L12 ANSWER 4 OF 16 CAPLUS COPYRIGHT 2003 ACS on STN (Continued)



REFERENCE COUNT: 9 THERE ARE 9 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L12 ANSWER 5 OF 16 CAPLUS COPYRIGHT 2003 ACS on STN

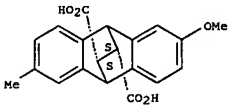
AB A 2,6-donor-acceptor-substituted anthracene, namely 6-methoxy-2-anthracenecarboxylate (I), was synthesized. The emission of this compd. exhibits significant solvatochromism. The fluorescence band position and intensity are also remarkably sensitive to H+. Irradn. of I in soln. yields the syn and anti head-to-tail dimers exclusively. A synergistic electronic effect between the donor and acceptor substituents is proposed to operate on the photophys. and photochem. properties of I.

ACCESSION NUMBER: 1999:428048 CAPLUS
DOCUMENT NUMBER: 131:184751
TITLE: Synthesis, fluorescence properties, and head-to-tail regioselectivity in the photodimerization of a donor-acceptor-substituted anthracene
AUTHOR(S): Ihmels, Heiko
CORPORATE SOURCE: Institut Organische Chemie, Univ. Wurzburg, Wurzburg, D-97074, Germany
SOURCE: European Journal of Organic Chemistry (1999), (7), 1595-1600
CODEN: EJOCFK; ISSN: 1434-193X
PUBLISHER: Wiley-VCH Verlag GmbH
DOCUMENT TYPE: Journal
LANGUAGE: English
OTHER SOURCE(S): CASREACT 131:184751

IT **240121-93-1P 240121-94-2P**
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(prepn., fluorescence properties, and regioselective photodimerization of methoxyanthracenecarboxylate)

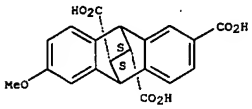
RN 240121-93-1 CAPLUS
CN 9,10-Ethanoanthracene-11,12-dicarboxylic acid, 9,10-dihydro-2-methoxy-6-methyl-, (11R,12R)-rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.



RN 240121-94-2 CAPLUS
CN 9,10-Ethanoanthracene-2,11,12-tricarboxylic acid, 9,10-dihydro-6-methoxy-, (11R,12R)-rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.

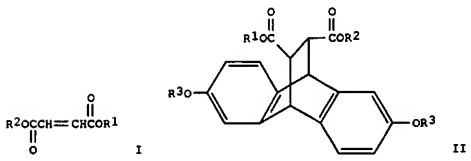


REFERENCE COUNT: 61 THERE ARE 61 CITED REFERENCES AVAILABLE FOR THIS

L12 ANSWER 5 OF 16 CAPLUS COPYRIGHT 2003 ACS on STN (Continued)
RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L12 ANSWER 6 OF 16 CAPLUS COPYRIGHT 2003 ACS on STN

GI



AB The cycloaddn. of fumarates I (R1, R2 = cis-cyclohexylcylhexyl or trans-cyclohexylcyclohexyl, cholesteryl, etc.) with 2,6-dialkoxyanthracenes gave the syn-adducts II (same R1, R2; R3 = alkyl) and the corresponding anti-adducts. The ability of liq. cryst. solvent phases to control the stereochem. course of bimol. thermal reactions of 2,6-dialkoxyanthracenes with a series of fumarates conducted at 130-180 .degree.C was examd., primarily with respect to the structural compatibility of the solutes with the solvent mesogens. For the case of the model thermal [4+2] cycloaddns. of 2,6-bis(decyloxy)anthracene to bis(trans-4-cyclohexylcyclohexyl) and cholesteryl trans-4-cyclohexylcyclohexyl fumarates at 130-150 .degree.C, cholesteryl 2,4-dichlorobenzoate (CDCB) and bis(4-pentyloxyphenyl) trans-1,4-cyclohexanedicarboxylate (BPCD) serve well as cholesteric and smectic liq. cryst. solvents and result in the preferential formation of syn-isomers with an extremely high level of regioselection (syn/anti .gtoreq. 20/1). In contrast, the isotropic solvents with closely related structures gave isomer ratios of only .gtoreq.3/1. Structural similarities between the solutes and the solvent mesogens appeared to play a key and influential role in controlling the stereochem. course of the reaction. The temp. dependence for the isomer distribution afforded an est. of the differences of solvation enthalpy and entropy between syn and anti transition states in the anisotropic media.

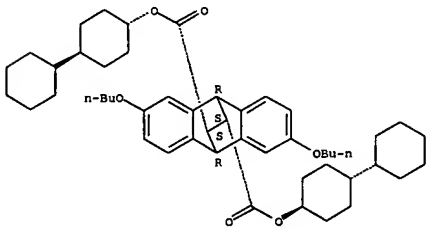
ACCESSION NUMBER: 1996:311607 CAPLUS
DOCUMENT NUMBER: 125:57663
TITLE: Liquid Crystal Control of Bimolecular Thermal Reactions. Highly Regioselective Pericycloaddition of Fumarates to 2,6-Dialkoxyanthracenes in Liquid-Crystalline Media
AUTHOR(S): Kansui, Hisao; Hiraoka, Shingo; Kunieda, Takehisa
CORPORATE SOURCE: Faculty of Pharmaceutical Sciences, Kumamoto University, Kumamoto, 862, Japan
SOURCE: Journal of the American Chemical Society (1996), 118(23), 5346-5352
CODEN: JACSAT; ISSN: 0002-7863
PUBLISHER: American Chemical Society
DOCUMENT TYPE: Journal
LANGUAGE: English

IT **143878-98-2P 143878-99-3P 143879-00-9P 143879-01-0P 143955-32-2P 143955-33-3P**

L12 ANSWER 6 OF 16 CAPLUS COPYRIGHT 2003 ACS on STN (Continued)
143955-34-4P 143955-35-5P 178099-93-9P 178099-94-0P 178099-95-1P 178099-96-2P 178099-97-3P 178099-98-4P 178099-99-5P 178230-35-8P 178230-36-9P 178230-37-0P 178230-38-1P 178230-39-2P 178230-40-5P 178230-41-6P 178230-42-7P 178230-43-8P 178230-44-9P 178230-45-0P 178230-46-1P
RL: SPN (Synthetic preparation); PREP (Preparation)
(thermal pericycloaddn. of fumarates to dialkoxyanthracenes in presence of liq. crystal solvents)

RN 143878-98-2 CAPLUS
CN 9,10-Ethanoanthracene-11,12-dicarboxylic acid, 2,6-dibutoxy-9,10-dihydro-, bis([1,1'-bicyclohexyl]-4-yl) ester, (9.alpha.,10.alpha.,11S*(trans),12S*(trans))- (9CI) (CA INDEX NAME)

Relative stereochemistry.

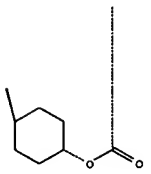


RN 143878-99-3 CAPLUS
CN 9,10-Ethanoanthracene-11,12-dicarboxylic acid, 2,6-bis(decyloxy)-9,10-dihydro-, bis([1,1'-bicyclohexyl]-4-yl) ester, [9.alpha.,10.alpha.,11S*(trans),12S*(trans)]- (9CI) (CA INDEX NAME)

Relative stereochemistry.

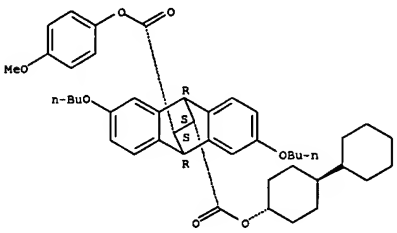
* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT *

PAGE 2-A



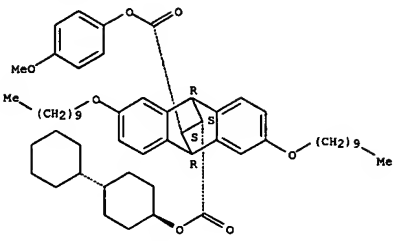
RN 143879-00-9 CAPLUS
CN 9,10-Ethanoanthracene-11,12-dicarboxylic acid, 2,6-dibutoxy-9,10-dihydro-, [1,1'-bicyclohexyl]-4-yl 4-methoxyphenyl ester, [9.alpha.,10.alpha.,11S*(trans),12S*]- (9CI) (CA INDEX NAME)

Relative stereochemistry.

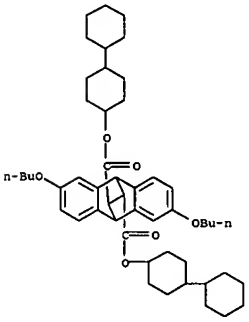


RN 143879-01-0 CAPLUS
CN 9,10-Ethanoanthracene-11,12-dicarboxylic acid, 2,6-bis(decyloxy)-9,10-dihydro-, [1,1'-bicyclohexyl]-4-yl 4-methoxyphenyl ester, [9.alpha.,10.alpha.,11S*(trans),12S*]- (9CI) (CA INDEX NAME)

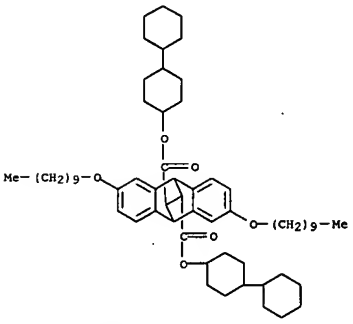
Relative stereochemistry.



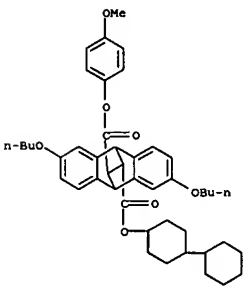
RN 143955-32-2 CAPLUS
CN 9,10-Ethanoanthracene-11,12-dicarboxylic acid, 2,6-dibutoxy-9,10-dihydro-, bis([1,1'-bicyclohexyl]-4-yl) ester, [9.alpha.,10.alpha.,11R*(trans),12R*(trans)]- (9CI) (CA INDEX NAME)



RN 143955-33-3 CAPLUS
CN 9,10-Ethanoanthracene-11,12-dicarboxylic acid, 2,6-bis(decyloxy)-9,10-dihydro-, bis([1,1'-bicyclohexyl]-4-yl) ester, [9.alpha.,10.alpha.,11R*(trans),12R*(trans)]- (9CI) (CA INDEX NAME)



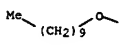
RN 143955-34-4 CAPLUS
CN 9,10-Ethanoanthracene-11,12-dicarboxylic acid, 2,6-dibutoxy-9,10-dihydro-, [1,1'-bicyclohexyl]-4-yl 4-methoxyphenyl ester, [9.alpha.,10.alpha.,11R*(trans),12R*]- (9CI) (CA INDEX NAME)



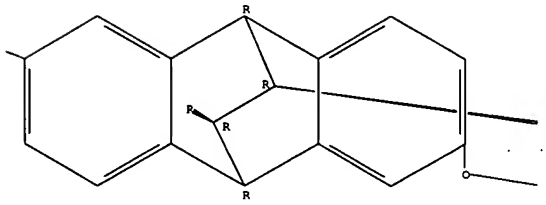
RN 143955-35-5 CAPLUS
CN 9,10-Ethanoanthracene-11,12-dicarboxylic acid, 2,6-bis(decyloxy)-9,10-dihydro-, [1,1'-bicyclohexyl]-4-yl 4-methoxyphenyl ester, [9.alpha.,10.alpha.,11R*(trans),12R*]- (9CI) (CA INDEX NAME)

Relative stereochemistry.

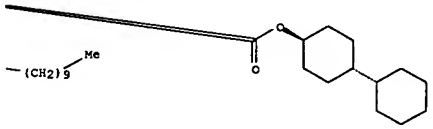
PAGE 1-A



PAGE 1-B



PAGE 1-C



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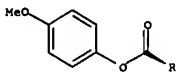
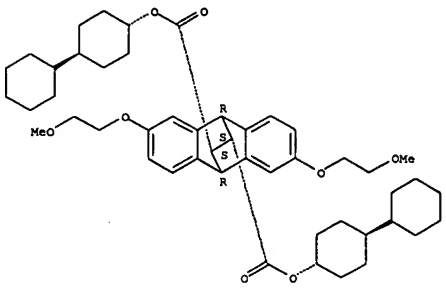


RN 178099-93-9 CAPLUS
CN 9,10-Ethanoanthracene-11,12-dicarboxylic acid, 9,10-dihydro-2,6-bis(2-methoxyethoxy)-, bis[1,1'-bicyclohexyl]-4-yl ester, [9.alpha.,10.alpha.,11S*(trans),12S*(trans)]- (9CI) (CA INDEX NAME)

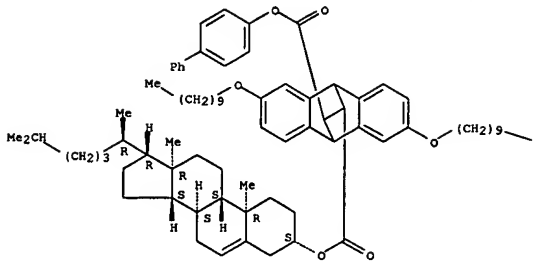
Relative stereochemistry.



RN 178099-94-0 CAPLUS
CN Cholest-5-en-3-ol (3.beta.)-, 12-[1,1'-biphenyl]-4-yl 3,7-bis(decyloxy)-9,10-dihydro-9,10-ethanoanthracene-11,12-dicarboxylate (9CI) (CA INDEX NAME)

Absolute stereochemistry.

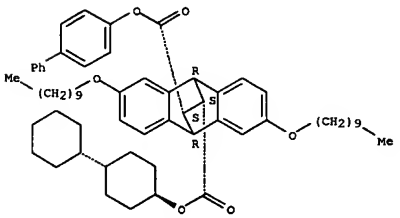
PAGE 1-A



PAGE 1-B

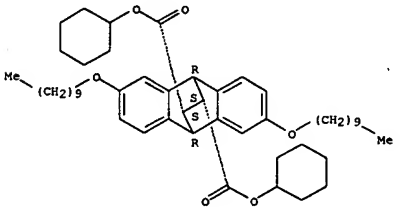
RN 178099-95-1 CAPLUS
CN 9,10-Ethanoanthracene-11,12-dicarboxylic acid, 2,6-bis(decyloxy)-9,10-dihydro-, [1,1'-bicyclohexyl]-4-yl [1,1'-biphenyl]-4-yl ester, [9.alpha.,10.alpha.,11S*(trans),12S*]- (9CI) (CA INDEX NAME)

Relative stereochemistry.



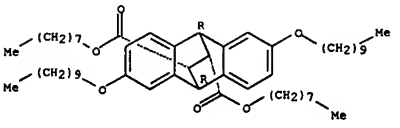
RN 178099-96-2 CAPLUS
CN 9,10-Ethanoanthracene-11,12-dicarboxylic acid, 2,6-bis(decyloxy)-9,10-dihydro-, dicyclohexyl ester, (9.alpha.,10.alpha.,11S*,12S*)- (9CI) (CA INDEX NAME)

Relative stereochemistry.



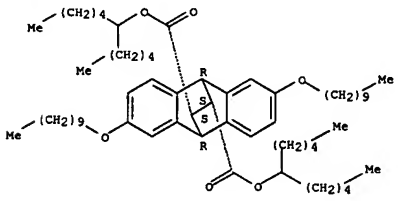
RN 178099-97-3 CAPLUS
CN 9,10-Ethanoanthracene-11,12-dicarboxylic acid, 2,6-bis(decyloxy)-9,10-dihydro-, dioctyl ester, (9.alpha.,10.alpha.,11S*,12S*)- (9CI) (CA INDEX NAME)

Relative stereochemistry.



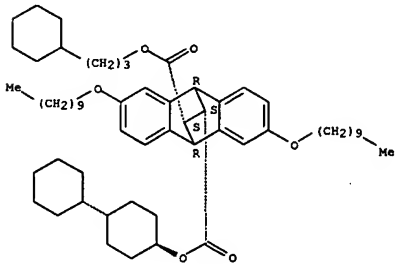
RN 178099-98-4 CAPLUS
CN 9,10-Ethanoanthracene-11,12-dicarboxylic acid, 2,6-bis(decyloxy)-9,10-dihydro-, bis(1-pentylhexyl) ester, (9.alpha.,10.alpha.,11S*,12S*)- (9CI) (CA INDEX NAME)

Relative stereochemistry.



RN 178099-99-5 CAPLUS
CN 9,10-Ethanoanthracene-11,12-dicarboxylic acid, 2,6-bis(decyloxy)-9,10-dihydro-, [1,1'-bicyclohexyl]-4-yl 3-cyclohexylpropyl ester, [9.alpha.,10.alpha.,11S*(trans),12S*]- (9CI) (CA INDEX NAME)

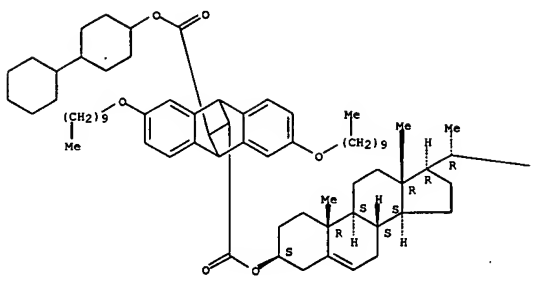
Relative stereochemistry.



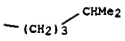
RN 178230-35-8 CAPLUS
CN Cholest-5-en-3-ol (3.beta.)-, [1,1'-bicyclohexyl]-4-yl 2,6-bis(decyloxy)-9,10-dihydro-9,10-ethanoanthracene-11,12-dicarboxylate (9CI) (CA INDEX NAME)

Absolute stereochemistry.

PAGE 1-A



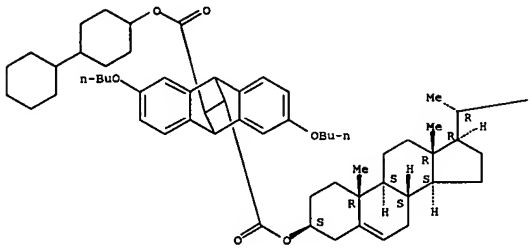
PAGE 1-B



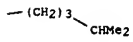
RN 178230-36-9 CAPLUS
CN Cholest-5-en-3-ol (3.beta.)-, [1,1'-bicyclohexyl]-4-yl 2,6-dibutoxy-9,10-dihydro-9,10-ethanoanthracene-11,12-dicarboxylate (9CI) (CA INDEX NAME)

Absolute stereochemistry.

PAGE 1-A



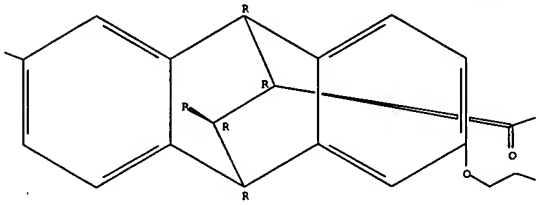
PAGE 1-B



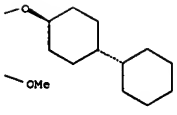
RN 178230-37-0 CAPLUS
CN 9,10-Ethanoanthracene-11,12-dicarboxylic acid, 9,10-dihydro-2,6-bis(2-methoxyethoxy)-, bis([1,1'-bicyclohexyl]-4-yl) ester, [9.alpha.,10.alpha.,11R*(trans),12R*(trans)]- (9CI) (CA INDEX NAME)

Relative stereochemistry.

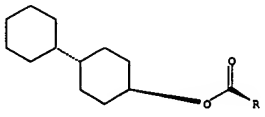
PAGE 1-B



PAGE 1-C



PAGE 2-A



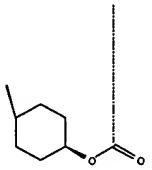
RN 178230-38-1 CAPLUS
CN 9,10-Ethanoanthracene-11,12-dicarboxylic acid, 2,6-bis(decyloxy)-9,10-dihydro-, bis([1,1'-bicyclohexyl]-4-yl) ester, [9.alpha.,10.alpha.,11S*(cis),12S*(cis)]- (9CI) (CA INDEX NAME)

Relative stereochemistry.

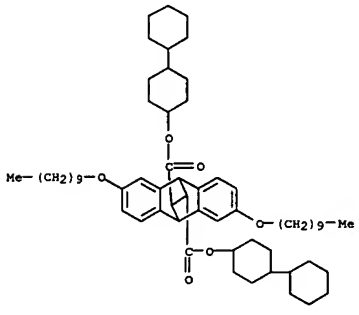
PAGE 1-A

* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT *

PAGE 2-A



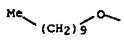
RN 178230-39-2 CAPLUS
CN 9,10-Ethanoanthracene-11,12-dicarboxylic acid, 2,6-bis(decyloxy)-9,10-dihydro-, bis([1,1'-bicyclohexyl]-4-yl) ester, [9.alpha.,10.alpha.,11R*(cis),12R*(cis)]- (9CI) (CA INDEX NAME)



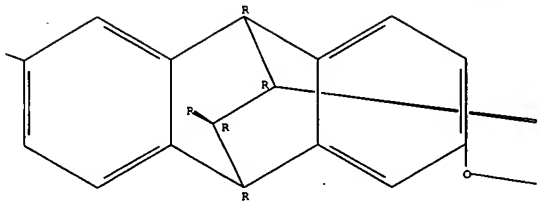
RN 178230-40-5 CAPLUS
CN 9,10-Ethanoanthracene-11,12-dicarboxylic acid, 2,6-bis(decyloxy)-9,10-dihydro-, [1,1'-bicyclohexyl]-4-yl [1,1'-biphenyl]-4-yl ester, [9.alpha.,10.alpha.,11R*(trans),12R*]- (9CI) (CA INDEX NAME)

Relative stereochemistry.

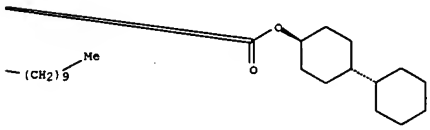
PAGE 1-A



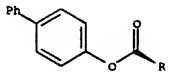
PAGE 1-B



PAGE 1-C



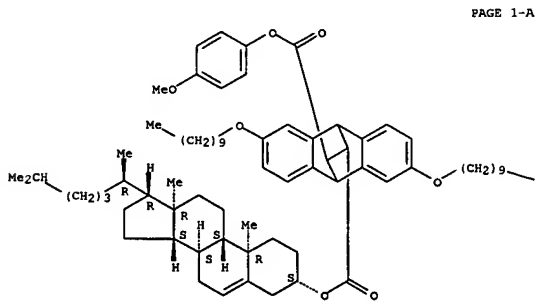
PAGE 2-A



RN 178230-41-6 CAPLUS
CN Cholest-5-en-3-ol (3.beta.)-, 4-methoxyphenyl 2,6-bis(decyloxy)-9,10-dihydro-9,10-ethanoanthracene-11,12-dicarboxylate (9CI) (CA INDEX NAME)

Absolute stereochemistry.

PAGE 1-A



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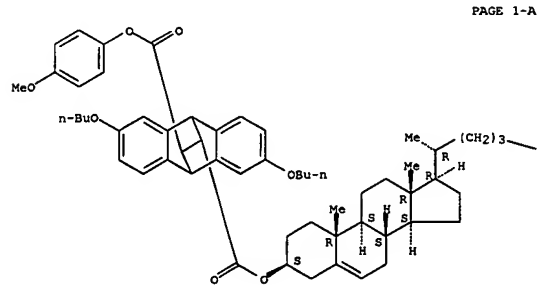
RN 178230-42-7 CAPLUS
CN Cholest-5-en-3-ol (3.beta.)-, 4-methoxyphenyl 2,6-dibutoxy-9,10-dihydro-9,10-ethanoanthracene-11,12-dicarboxylate (9CI) (CA INDEX NAME)

Absolute stereochemistry.

PAGE 1-A



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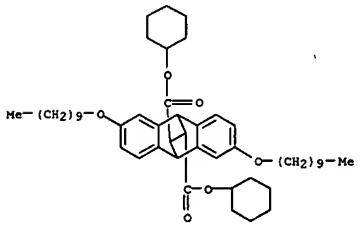
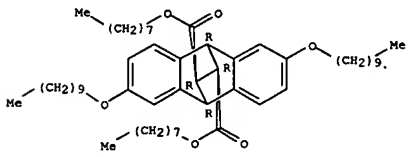
RN 178230-43-8 CAPLUS
CN 9,10-Ethanoanthracene-11,12-dicarboxylic acid, 2,6-bis(decyloxy)-9,10-dihydro-, dicyclohexyl ester, (9.alpha.,10.alpha.,11R*,12R*)- (9CI) (CA INDEX NAME)



RN 178230-44-9 CAPLUS
CN 9,10-Ethanoanthracene-11,12-dicarboxylic acid, 2,6-bis(decyloxy)-9,10-dihydro-, dioctyl ester, (9.alpha.,10.alpha.,11R*,12R*)- (9CI) (CA INDEX NAME)

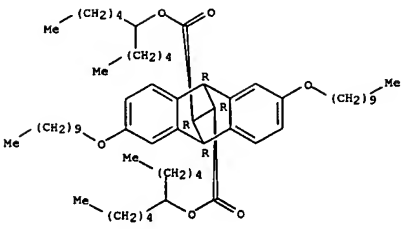
Relative stereochemistry.



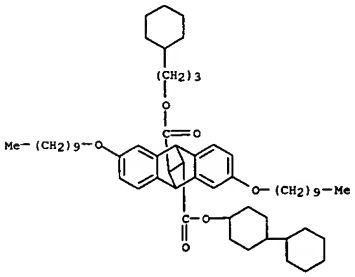
RN 178230-45-0 CAPLUS
CN 9,10-Ethanoanthracene-11,12-dicarboxylic acid, 2,6-bis(decyloxy)-9,10-dihydro-, bis(1-pentylhexyl) ester, (9.alpha.,10.alpha.,11R*,12R*)- (9CI) (CA INDEX NAME)

Relative stereochemistry.

L12 ANSWER 6 OF 16 CAPLUS COPYRIGHT 2003 ACS on STN (Continued)



RN 178230-46-1 CAPLUS
CN 9,10-Ethanoanthracene-11,12-dicarboxylic acid, 2,6-bis(decyloxy)-9,10-dihydro-, [1,1'-bicyclohexyl]-4-yl 3-cyclohexylpropyl ester, [9.alpha.,10.alpha.,11R*(trans),12R*]- (9CI) (CA INDEX NAME)

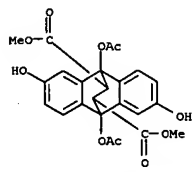


L12 ANSWER 7 OF 16 CAPLUS COPYRIGHT 2003 ACS on STN
AB Sol. polyesters are synthesized by polymg. a range of bis(acid chloride)s with the bisphenol that is formally the Diels-Alder adduct of 9,10-diacetoxy-2,6-dihydroxyanthracene and di-Me maleate. Heating the sol. polyesters to about 230.degree. brought about retro-Diels-Alder reactions to give the insol. target polyesters contg. 9,10-diacetoxyanthracene residues.

ACCESSION NUMBER: 1996:257386 CAPLUS
DOCUMENT NUMBER: 124:318058
TITLE: Synthesis of polyesters containing 9,10-diacetoxyanthracene-2,6-diyl moieties via a precursor polymer approach
AUTHOR(S): Uddin, Ruab; Hodge, Philip; Chisholm, Michael S.; Eustace, Paul
CORPORATE SOURCE: Chem. Dep., Univ. Manchester, Manchester, M12 9PL, UK
SOURCE: Journal of Materials Chemistry (1996), 6(4), 527-32
CODEN: JMACEP; ISSN: 0959-9428
PUBLISHER: Royal Society of Chemistry
DOCUMENT TYPE: Journal
LANGUAGE: English

IT 176391-74-5P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(monomer; synthesis of polyesters contg. 9,10-diacetoxyanthracene-2,6-diyl moieties via precursor and retro-Diels-Alder reaction)

RN 176391-74-5 CAPLUS
CN 9,10-Ethanoanthracene-11,12-dicarboxylic acid, 9,10-bis(acetyloxy)-9,10-dihydro-2,6-dihydroxy-, dimethyl ester (9CI) (CA INDEX NAME)



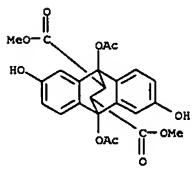
IT 176391-76-7P 176391-77-8P 176391-78-9P
176391-79-0P 176391-80-3P 176391-81-4P
176391-82-5P 176391-83-6P 176391-84-7P
176391-85-8P 176391-86-9P 176391-87-0P
176391-88-1P 176391-89-2P 176391-90-5P
176391-91-6P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(precursor; synthesis of polyesters contg. 9,10-diacetoxyanthracene-2,6-diyl moieties via precursor and retro-Diels-Alder reaction)

RN 176391-76-7 CAPLUS
CN 9,10-Ethanoanthracene-11,12-dicarboxylic acid, 9,10-bis(acetyloxy)-9,10-dihydro-2,6-dihydroxy-, dimethyl ester, polymer with decanedioyl dichloride (9CI) (CA INDEX NAME)

CM 1

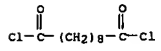
L12 ANSWER 7 OF 16 CAPLUS COPYRIGHT 2003 ACS on STN (Continued)

CRN 176391-74-5
CMF C24 H22 O10

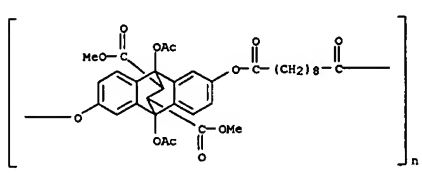


CM 2

CRN 111-19-3
CMF C10 H16 Cl2 O2



RN 176391-77-8 CAPLUS
CN
Poly[oxy[9,10-bis(acetyloxy)-9,10-dihydro-11,12-bis(methoxycarbonyl)-9,10-ethanoanthracene-2,6-diyl]oxy(1,10-dioxo-1,10-decanediyl)] (9CI) (CA INDEX NAME)

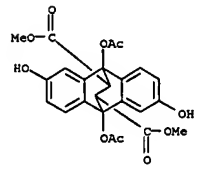


RN 176391-78-9 CAPLUS
CN 9,10-Ethanoanthracene-11,12-dicarboxylic acid, 9,10-bis(acetyloxy)-9,10-dihydro-2,6-dihydroxy-, dimethyl ester, polymer with 1,4-benzenedicarbonyl dichloride (9CI) (CA INDEX NAME)

CM 1

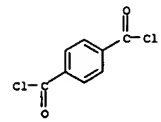
CRN 176391-74-5

L12 ANSWER 7 OF 16 CAPLUS COPYRIGHT 2003 ACS on STN (Continued)
CMF C24 H22 O10

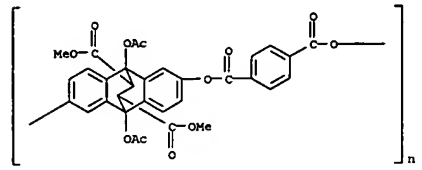


CM 2

CRN 100-20-9
CMF C8 H4 Cl2 O2



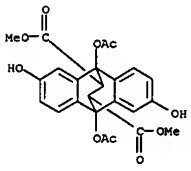
RN 176391-79-0 CAPLUS
CN
Poly[oxycarbonyl-1,4-phenylenecarbonyloxy[9,10-bis(acetyloxy)-9,10-dihydro-11,12-bis(methoxycarbonyl)-9,10-ethanoanthracene-2,6-diyl]] (9CI) (CA INDEX NAME)



RN 176391-80-3 CAPLUS
CN 9,10-Ethanoanthracene-11,12-dicarboxylic acid, 9,10-bis(acetyloxy)-9,10-dihydro-2,6-dihydroxy-, dimethyl ester, polymer with 1,3-benzenedicarbonyl dichloride (9CI) (CA INDEX NAME)

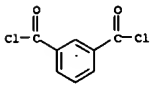
CM 1

CRN 176391-74-5
CMF C24 H22 O10

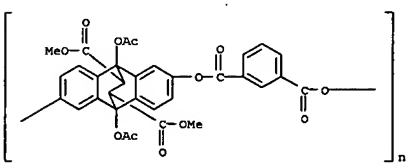


CM 2

CRN 99-63-8
CMF C8 H4 Cl2 O2



RN 176391-81-4 CAPLUS
CN Poly[oxycarbonyl-1,3-phenylenecarbonyloxy[9,10-bis(acetyloxy)-9,10-dihydro-11,12-bis(methoxycarbonyl)-9,10-ethanoanthracene-2,6-diyl]] (9CI) (CA INDEX NAME)

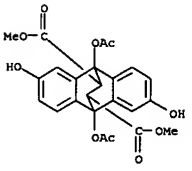


RN 176391-82-5 CAPLUS
CN 9,10-Ethanoanthracene-11,12-dicarboxylic acid, 9,10-bis(acetyloxy)-9,10-dihydro-2,6-dihydroxy-, dimethyl ester, polymer with 1,2-benzenedicarbonyl

RN 176391-84-7 CAPLUS
CN 9,10-Ethanoanthracene-11,12-dicarboxylic acid, 9,10-bis(acetyloxy)-9,10-dihydro-2,6-dihydroxy-, dimethyl ester, polymer with hexanedioyl dichloride (9CI) (CA INDEX NAME)

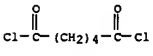
CM 1

CRN 176391-74-5
CMF C24 H22 O10

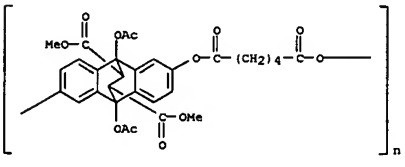


CM 2

CRN 111-50-2
CMF C6 H8 Cl2 O2



RN 176391-85-8 CAPLUS
CN Poly[oxy(1,6-dioxo-1,6-hexanediyl)oxy[9,10-bis(acetyloxy)-9,10-dihydro-11,12-bis(methoxycarbonyl)-9,10-ethanoanthracene-2,6-diyl]] (9CI) (CA INDEX NAME)

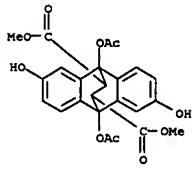


RN 176391-86-9 CAPLUS
CN 9,10-Ethanoanthracene-11,12-dicarboxylic acid, 9,10-bis(acetyloxy)-9,10-dihydro-2,6-dihydroxy-, dimethyl ester, polymer with [1,1'-biphenyl]-4,4'-

dichloride (9CI) (CA INDEX NAME)

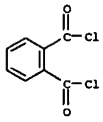
CM 1

CRN 176391-74-5
CMF C24 H22 O10

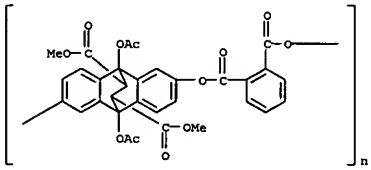


CM 2

CRN 88-95-9
CMF C8 H4 Cl2 O2



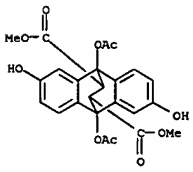
RN 176391-83-6 CAPLUS
CN Poly[oxycarbonyl-1,2-phenylenecarbonyloxy[9,10-bis(acetyloxy)-9,10-dihydro-11,12-bis(methoxycarbonyl)-9,10-ethanoanthracene-2,6-diyl]] (9CI) (CA INDEX NAME)



dicarbonyl dichloride (9CI) (CA INDEX NAME)

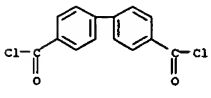
CM 1

CRN 176391-74-5
CMF C24 H22 O10

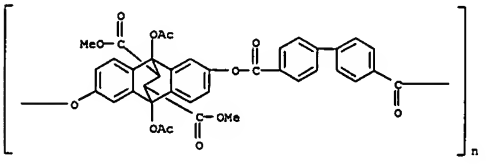


CM 2

CRN 2351-37-3
CMF C14 H8 Cl2 O2



RN 176391-87-0 CAPLUS
CN Poly[oxy[9,10-bis(acetyloxy)-9,10-dihydro-11,12-bis(methoxycarbonyl)-9,10-ethanoanthracene-2,6-diyl]oxycarbonyl[1,1'-biphenyl]-4,4'-diylcarbonyl] (9CI) (CA INDEX NAME)

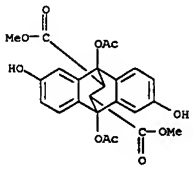


RN 176391-88-1 CAPLUS
CN 9,10-Ethanoanthracene-11,12-dicarboxylic acid, 9,10-bis(acetyloxy)-9,10-dihydro-2,6-dihydroxy-, dimethyl ester, polymer with 4,4'-oxybis[benzoyl

chloride) (9CI) (CA INDEX NAME)

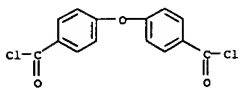
CM 1

CRN 176391-74-5
CMF C24 H22 O10

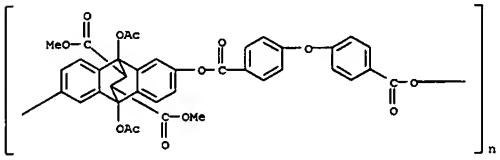


CM 2

CRN 7758-32-9
CMF C14 H8 Cl2 O3



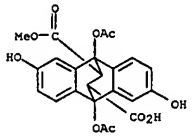
RN 176391-89-2 CAPLUS
CN Poly[oxycarbonyl-1,4-phenyleneoxy-1,4-phenylenecarbonyloxy[9,10-bis(acetyloxy)-9,10-dihydro-11,12-bis(methoxycarbonyl)-9,10-ethanoanthracene-2,6-diyl]] (9CI) (CA INDEX NAME)



RN 176391-90-5 CAPLUS
CN 9,10-Ethanoanthracene-11,12-dicarboxylic acid, 9,10-bis(acetyloxy)-9,10-dihydro-2,6-dihydroxy-, dimethyl ester, polymer with 2,6-naphthalenedicarbonyl dichloride (9CI) (CA INDEX NAME)

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(prepn. and esterification of)

RN 176391-75-6 CAPLUS
CN 9,10-Ethanoanthracene-11,12-dicarboxylic acid, 9,10-bis(acetyloxy)-9,10-dihydro-2,6-dihydroxy-, monomethyl ester (9CI) (CA INDEX NAME)

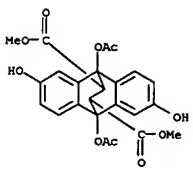


IT **176391-76-7DP**, retro-Diels-Alder product **176391-77-8DP**, retro-Diels-Alder product **176391-78-9DP**, retro-Diels-Alder product **176391-79-0DP**, retro-Diels-Alder product **176391-80-3DP**, retro-Diels-Alder product **176391-81-4DP**, retro-Diels-Alder product **176391-82-5DP**, retro-Diels-Alder product **176391-83-6DP**, retro-Diels-Alder product **176391-84-7DP**, retro-Diels-Alder product **176391-85-8DP**, retro-Diels-Alder product **176391-86-9DP**, retro-Diels-Alder product **176391-87-0DP**, retro-Diels-Alder product **176391-88-1DP**, retro-Diels-Alder product **176391-89-2DP**, retro-Diels-Alder product **176391-90-5DP**, retro-Diels-Alder product **176391-91-6DP**, retro-Diels-Alder product
RL: SPN (Synthetic preparation); PREP (Preparation)
(synthesis of polyesters contg. 9,10-diacetoxyanthracene-2,6-diyl moieties via precursor and retro-Diels-Alder reaction)

RN 176391-76-7 CAPLUS
CN 9,10-Ethanoanthracene-11,12-dicarboxylic acid, 9,10-bis(acetyloxy)-9,10-dihydro-2,6-dihydroxy-, dimethyl ester, polymer with decanedioyl dichloride (9CI) (CA INDEX NAME)

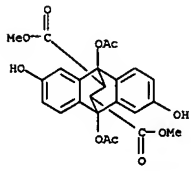
CM 1

CRN 176391-74-5
CMF C24 H22 O10



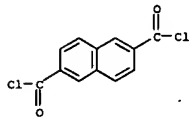
CM 1

CRN 176391-74-5
CMF C24 H22 O10

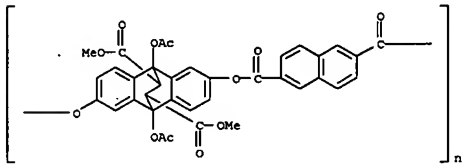


CM 2

CRN 2351-36-2
CMF C12 H6 Cl2 O2



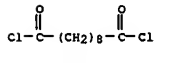
RN 176391-91-6 CAPLUS
CN Poly[oxy[9,10-bis(acetyloxy)-9,10-dihydro-11,12-bis(methoxycarbonyl)-9,10-ethanoanthracene-2,6-diyl]oxycarbonyl-2,6-naphthalenediylcarbonyl] (9CI) (CA INDEX NAME)



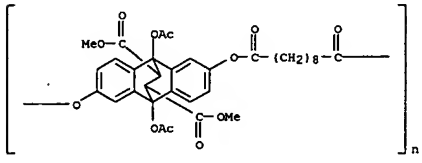
IT **176391-75-6P**

CM 2

CRN 111-19-3
CMF C10 H16 Cl2 O2



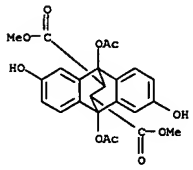
RN 176391-77-8 CAPLUS
CN Poly[oxy[9,10-bis(acetyloxy)-9,10-dihydro-11,12-bis(methoxycarbonyl)-9,10-ethanoanthracene-2,6-diyl]oxy(1,10-dioxo-1,10-decanediyl)] (9CI) (CA INDEX NAME)



RN 176391-78-9 CAPLUS
CN 9,10-Ethanoanthracene-11,12-dicarboxylic acid, 9,10-bis(acetyloxy)-9,10-dihydro-2,6-dihydroxy-, dimethyl ester, polymer with 1,4-benzenedicarbonyl dichloride (9CI) (CA INDEX NAME)

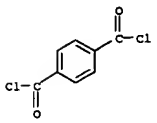
CM 1

CRN 176391-74-5
CMF C24 H22 O10

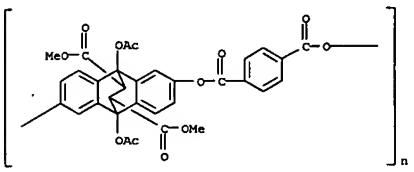


CM 2

CRN 100-20-9
CMF C8 H4 Cl2 O2



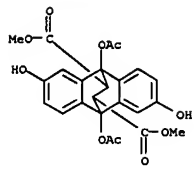
RN 176391-79-0 CAPLUS
CN Poly[oxycarbonyl-1,4-phenylenecarbonyloxy[9,10-bis(acetyloxy)-9,10-dihydro-11,12-bis(methoxycarbonyl)-9,10-ethanoanthracene-2,6-diyl]] (9CI) (CA INDEX NAME)



RN 176391-80-3 CAPLUS
CN 9,10-Ethanoanthracene-11,12-dicarboxylic acid, 9,10-bis(acetyloxy)-9,10-dihydro-2,6-dihydroxy-, dimethyl ester, polymer with 1,3-benzenedicarbonyl dichloride (9CI) (CA INDEX NAME)

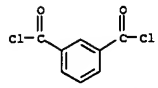
CM 1

CRN 176391-74-5
CMF C24 H22 O10

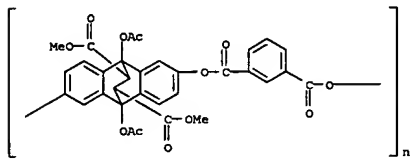


CM 2

CRN 99-63-8
CMF C8 H4 Cl2 O2



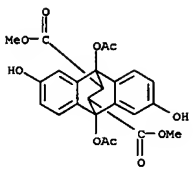
RN 176391-81-4 CAPLUS
CN Poly[oxycarbonyl-1,3-phenylenecarbonyloxy[9,10-bis(acetyloxy)-9,10-dihydro-11,12-bis(methoxycarbonyl)-9,10-ethanoanthracene-2,6-diyl]] (9CI) (CA INDEX NAME)



RN 176391-82-5 CAPLUS
CN 9,10-Ethanoanthracene-11,12-dicarboxylic acid, 9,10-bis(acetyloxy)-9,10-dihydro-2,6-dihydroxy-, dimethyl ester, polymer with 1,2-benzenedicarbonyl dichloride (9CI) (CA INDEX NAME)

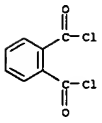
CM 1

CRN 176391-74-5
CMF C24 H22 O10

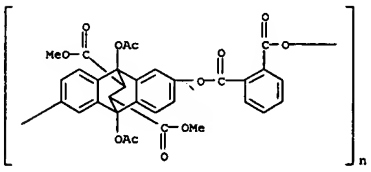


CM 2

CRN 88-95-9
CMF C8 H4 Cl2 O2



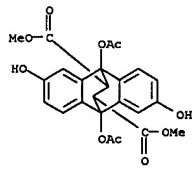
RN 176391-83-6 CAPLUS
CN Poly[oxycarbonyl-1,2-phenylenecarbonyloxy[9,10-bis(acetyloxy)-9,10-dihydro-11,12-bis(methoxycarbonyl)-9,10-ethanoanthracene-2,6-diyl]] (9CI) (CA INDEX NAME)



RN 176391-84-7 CAPLUS
CN 9,10-Ethanoanthracene-11,12-dicarboxylic acid, 9,10-bis(acetyloxy)-9,10-dihydro-2,6-dihydroxy-, dimethyl ester, polymer with hexanedioyl dichloride (9CI) (CA INDEX NAME)

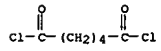
CM 1

CRN 176391-74-5
CMF C24 H22 O10

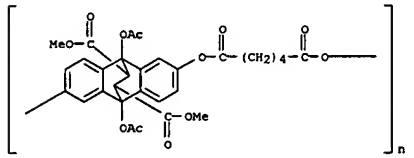


CM 2

CRN 111-50-2
CMF C6 H8 Cl2 O2



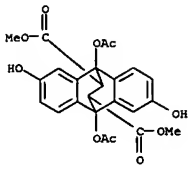
RN 176391-85-8 CAPLUS
CN Poly[oxy(1,6-dioxo-1,6-hexanediyl)oxy[9,10-bis(acetyloxy)-9,10-dihydro-11,12-bis(methoxycarbonyl)-9,10-ethanoanthracene-2,6-diyl]] (9CI) (CA INDEX NAME)



RN 176391-86-9 CAPLUS
CN 9,10-Ethanoanthracene-11,12-dicarboxylic acid, 9,10-bis(acetyloxy)-9,10-dihydro-2,6-dihydroxy-, dimethyl ester, polymer with [1,1'-biphenyl]-4,4'-dicarbonyl dichloride (9CI) (CA INDEX NAME)

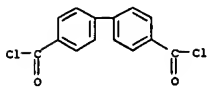
CM 1

CRN 176391-74-5
CMF C24 H22 O10

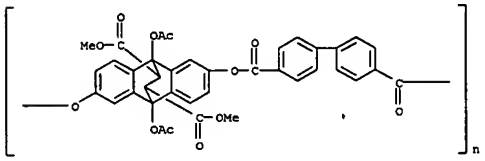


CM 2

CRN 2351-37-3
CMF C14 H8 C12 O2



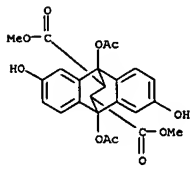
RN 176391-87-0 CAPLUS
CN Poly[oxy[9,10-bis(acetyloxy)-9,10-dihydro-11,12-bis(methoxycarbonyl)-9,10-ethanoanthracene-2,6-diyl]oxycarbonyl[1,1'-biphenyl]-4,4'-diylcarbonyl] (9CI) (CA INDEX NAME)



RN 176391-88-1 CAPLUS
CN 9,10-Ethanoanthracene-11,12-dicarboxylic acid, 9,10-bis(acetyloxy)-9,10-dihydro-2,6-dihydroxy-, dimethyl ester, polymer with 4,4'-oxybis[benzoyl chloride] (9CI) (CA INDEX NAME)

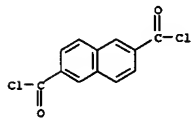
CM 1

CRN 176391-74-5
CMF C24 H22 O10

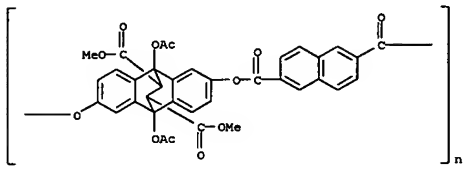


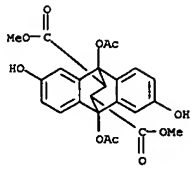
CM 2

CRN 2351-36-2
CMF C12 H6 C12 O2



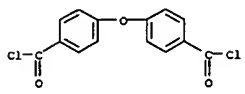
RN 176391-91-6 CAPLUS
CN Poly[oxy[9,10-bis(acetyloxy)-9,10-dihydro-11,12-bis(methoxycarbonyl)-9,10-ethanoanthracene-2,6-diyl]oxycarbonyl-2,6-naphthalenediylcarbonyl] (9CI) (CA INDEX NAME)



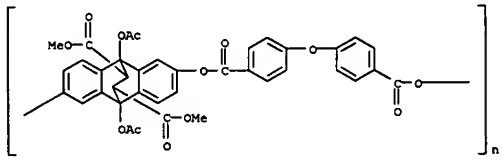


CM 2

CRN 7158-32-9
CMF C14 H8 C12 O3



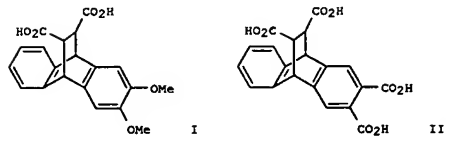
RN 176391-89-2 CAPLUS
CN Poly[oxycarbonyl-1,4-phenyleneoxy-1,4-phenylenecarbonyloxy[9,10-bis(acetyloxy)-9,10-dihydro-11,12-bis(methoxycarbonyl)-9,10-ethanoanthracene-2,6-diyl]] (9CI) (CA INDEX NAME)



RN 176391-90-5 CAPLUS
CN 9,10-Ethanoanthracene-11,12-dicarboxylic acid, 9,10-bis(acetyloxy)-9,10-dihydro-2,6-dihydroxy-, dimethyl ester, polymer with 2,6-naphthalenedicarbonyl dichloride (9CI) (CA INDEX NAME)

CM 1

CRN 176391-74-5
CMF C24 H22 O10



I II

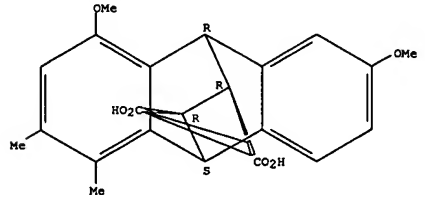
AB An efficient oxidn. of Me and primary side chains of anthracene Diels-Alder adducts with KMnO4 is reported (e.g., I .fwdarw. II). The oxidn. leaves the bridgehead methine intact providing Diels-Alder adducts of anthracenecarboxylic acids. Retro Diels-Alder reaction allows for the prepn. of the parent anthracenecarboxylic acids.

ACCESSION NUMBER: 1994:700572 CAPLUS
DOCUMENT NUMBER: 121:300572
TITLE: Oxidation of aliphatic side chains in anthracene Diels-Alder adducts
AUTHOR(S): McCormick, Frankie A.; Marquardt, Donald J.
CORPORATE SOURCE: Dep. Chem., Tulane Univ., New Orleans, LA, 70118, USA
SOURCE: Tetrahedron Letters (1994), 35(29), 5169-72
CODEN: TELEAY; ISSN: 0040-4039
DOCUMENT TYPE: Journal
LANGUAGE: English
OTHER SOURCE(S): CASREACT 121:300572

IT **159046-95-4 159169-20-7**
RL: RCT (Reactant); RACT (Reactant or reagent)
(regioselective oxidn. of aliph. side chains in anthracene Diels-Alder adducts with potassium permanganate)

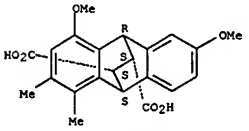
RN 159046-95-4 CAPLUS
CN 9,10-Ethanoanthracene-11,12-dicarboxylic acid, 9,10-dihydro-4,6-dimethoxy-1,2-dimethyl-, (9.alpha.,10.alpha.,11S*,12S*)- (9CI) (CA INDEX NAME)

Relative stereochemistry.



RN 159169-20-7 CAPLUS
CN 9,10-Ethanoanthracene-11,12-dicarboxylic acid, 9,10-dihydro-4,6-dimethoxy-1,2-dimethyl-, (9.alpha.,10.alpha.,11R*,12R*)- (9CI) (CA INDEX NAME)

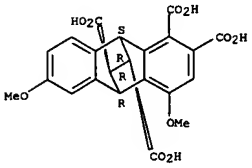
Relative stereochemistry.



IT **159047-05-9P 159169-25-2P**
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(regioselective oxidn. of aliph. side chains in anthracene Diels-Alder adducts with potassium permanganate)

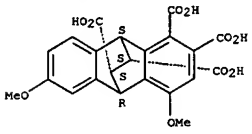
RN 159047-05-9 CAPLUS
CN 9,10-Ethanoanthracene-1,2,11,12-tetracarboxylic acid, 9,10-dihydro-4,6-dimethoxy-, (9.alpha.,10.alpha.,11S*,12S*)- (9CI) (CA INDEX NAME)

Relative stereochemistry.



RN 159169-25-2 CAPLUS
CN 9,10-Ethanoanthracene-1,2,11,12-tetracarboxylic acid, 9,10-dihydro-4,6-dimethoxy-, (9.alpha.,10.alpha.,11R*,12R*)- (9CI) (CA INDEX NAME)

Relative stereochemistry.

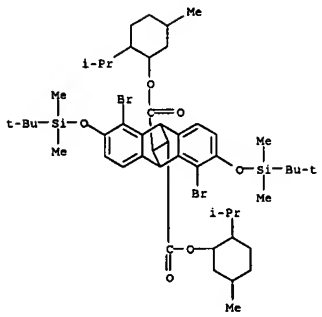


AB The authors describe a large no. of binding studies in aq. media designed to provide new insights into noncovalent binding interactions, esp. the cation-.pi. interaction. The studies include 7 different hosts, >70 guests, and >150 new binding consts. In addn. to the now std. NMR methods, CD was an esp. useful tool for detg. aq. binding consts. In addn. to the alkyliminium and tetraalkylammonium guests studied previously, sulfonium and guanidinium guests also show substantial cation-.pi. effects. Bromination of the host greatly enhances its binding ability in a general fashion, primarily as a result of hydrophobic interactions. Addn. of methoxy groups did not enhance binding, apparently as a result of a collapse of the host into a conformation that is not suitable for binding. Replacement of two benzene rings of the host by furans or thiophenes also did not enhance binding. Ab initio calcns. provide a rationalization for this effect and suggest a clearer model for the cation-.pi. interaction.

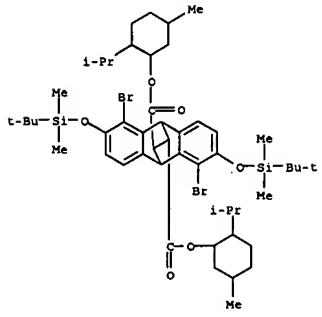
ACCESSION NUMBER: 1994:8143 CAPLUS
DOCUMENT NUMBER: 120:8143
TITLE: Molecular recognition in aqueous media. New binding studies provide further insights into the cation-.pi. interaction and related phenomena
AUTHOR(S): Kearney, Patrick C.; Mizoue, Laura S.; Kumpf, Robert A.; Forman, Jonathan E.; McCurdy, Alison; Dougherty, Dennis A.
CORPORATE SOURCE: Arnold Mabel Beckman Lab. Chem. Synth., California Inst. Technol., Pasadena, CA, 91125, USA
SOURCE: Journal of the American Chemical Society (1993), 115(22), 9907-19
CODEN: JACSAT; ISSN: 0002-7863
DOCUMENT TYPE: Journal
LANGUAGE: English

IT **151424-30-5P 151529-74-7P**
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(prepn. and oxidn. of)

RN 151424-30-5 CAPLUS
CN 9,10-Ethanoanthracene-11,12-dicarboxylic acid, 1,5-dibromo-2,6-bis[[(1,1-dimethylethyl)dimethylsilyl]oxy]-9,10-dihydro-, bis[5-methyl-2-(1-methylethyl)cyclohexyl] ester, [9R-[9.alpha.,10.alpha.,11S*(1R*,2S*,5R*),1 2S*(1R*,2S*,5R*)]]- (9CI) (CA INDEX NAME)



RN 151529-74-7 CAPLUS
CN 9,10-Ethanoanthracene-11,12-dicarboxylic acid, 1,5-dibromo-2,6-bis[[(1,1-dimethylethyl)dimethylsilyl]oxy]-9,10-dihydro-, bis[5-methyl-2-(1-methylethyl)cyclohexyl] ester, (9S-[9.alpha.,10.alpha.,11S*(1R*,2S*,5R*),1 2S*(1R*,2S*,5R*)]]- (9CI) (CA INDEX NAME)



L12 ANSWER 10 OF 16 CAPLUS COPYRIGHT 2003 ACS on STN

AB Mol. ordering present in cholesteric liq. cryst. solvent phase is shown to be rigid enough to regulate the uncatalyzed Diels-Alder reactions of cholesteryl and 4-cyclohexylcyclohexyl fumarates with 2,6-dialkoxyanthracenes conducted above 130.degree. with significantly high regioselectivity up to 90% d.e., which is considerably dependent on the structural features of reactants and the mesogens.

ACCESSION NUMBER: 1992:591441 CAPLUS
DOCUMENT NUMBER: 117:191441
TITLE: Strong regiochemical control of bimolecular thermochemical reactions in cholesteric liquid crystalline solvents
AUTHOR(S): Hiraoka, Shingo; Yoshida, Takuro; Kansui, Hisao; Kunieda, Takehisa
CORPORATE SOURCE: Fac. Pharm. Sci., Kumamoto Univ., Kumamoto, 862, Japan
SOURCE: Tetrahedron Letters (1992), 33(30), 4341-4
CODEN: TELEAY; ISSN: 0040-4039
DOCUMENT TYPE: Journal
LANGUAGE: English
OTHER SOURCE(S): CASREACT 117:191441

IT **143878-92-6P 143878-93-7P 143878-94-8P**
143878-95-9P 143878-96-0P 143878-97-1P
143878-98-2P 143878-99-3P 143879-00-9P
143879-01-0P 143955-14-0P 143955-15-1P
143955-16-2P 143955-17-3P 143955-18-4P
143955-19-5P 143955-20-8P 143955-21-9P
143955-22-0P 143955-23-1P 143955-24-2P
143955-25-3P 143955-26-4P 143955-27-5P
143955-28-6P 143955-29-7P 143955-30-0P
143955-31-1P 143955-32-2P 143955-33-3P
143955-34-4P 143955-35-5P 143955-36-6P
143955-37-7P
RL: SPN (Synthetic preparation); PREP (Preparation)
(prepn. of)

RN 143878-92-6 CAPLUS
CN Cholest-5-en-3-ol (3.beta.)-, 4-methoxyphenyl 2,6-dibutoxy-9,10-dihydro-9,10-ethanoanthracene-11,12-dicarboxylate, [3(9R,10R,11S,12S)]- (9CI) (CA INDEX NAME)

L12 ANSWER 10 OF 16 CAPLUS COPYRIGHT 2003 ACS on STN (Continued)

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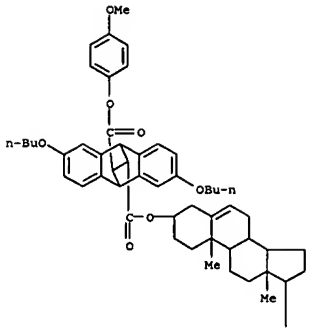

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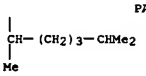

RN 143878-93-7 CAPLUS
CN Cholest-5-en-3-ol (3.beta.)-, 4-methoxyphenyl 9,10-dihydro-2,6-bis(2-methoxyethoxy)-9,10-ethanoanthracene-11,12-dicarboxylate, [3(9R,10R,11S,12S)]- (9CI) (CA INDEX NAME)

L12 ANSWER 10 OF 16 CAPLUS COPYRIGHT 2003 ACS on STN (Continued)

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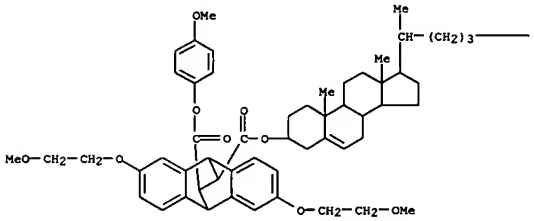

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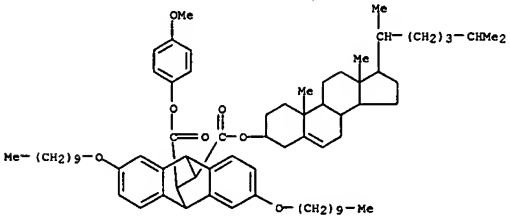
—CHMe2

RN 143878-94-8 CAPLUS
CN Cholest-5-en-3-ol (3.beta.)-, 4-methoxyphenyl 2,6-bis(decyloxy)-9,10-dihydro-9,10-ethanoanthracene-11,12-dicarboxylate, [3(9R,10R,11S,12S)]- (9CI) (CA INDEX NAME)



RN 143878-95-9 CAPLUS
CN Cholest-5-en-3-ol (3.beta.)-, 2,6-bis(decyloxy)-9,10-dihydro-9,10-ethanoanthracene-11,12-dicarboxylate (2:1), [3(9R,10R,11S,12S)]- (9CI) (CA INDEX NAME)

L12 ANSWER 10 OF 16 CAPLUS COPYRIGHT 2003 ACS on STN (Continued)

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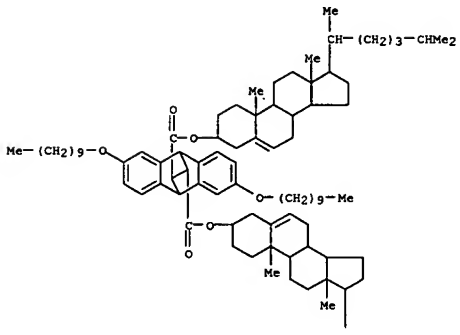

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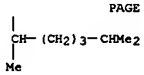

RN 143878-96-0 CAPLUS
CN Cholest-5-en-3-ol (3.beta.)-, [1,1'-bicyclohexyl]-4-yl 2,6-dibutoxy-9,10-dihydro-9,10-ethanoanthracene-11,12-dicarboxylate, [3(9R,10R,11S,12S(trans))]- (9CI) (CA INDEX NAME)

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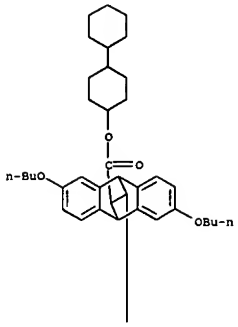

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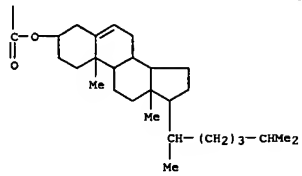
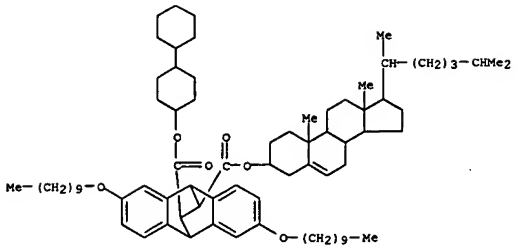
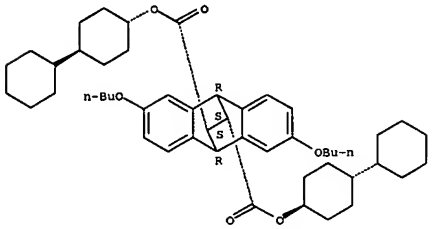


RN 143878-97-1 CAPLUS
CN Cholest-5-en-3-ol (3.beta.)-, [1,1'-bicyclohexyl]-4-yl 2,6-bis(decyloxy)-9,10-dihydro-9,10-ethanoanthracene-11,12-dicarboxylate, [3[9R,10R,11S,12S(trans)]]- (9CI) (CA INDEX NAME)



RN 143878-98-2 CAPLUS
CN 9,10-Ethanoanthracene-11,12-dicarboxylic acid, 2,6-dibutoxy-9,10-dihydro-, bis([1,1'-bicyclohexyl]-4-yl) ester, [9.alpha.,10.alpha.,11S*(trans),12S*(trans)]- (9CI) (CA INDEX NAME)

Relative stereochemistry.



RN 143878-99-3 CAPLUS
CN 9,10-Ethanoanthracene-11,12-dicarboxylic acid, 2,6-bis(decyloxy)-9,10-dihydro-, bis([1,1'-bicyclohexyl]-4-yl) ester, [9.alpha.,10.alpha.,11S*(trans),12S*(trans)]- (9CI) (CA INDEX NAME)

Relative stereochemistry.

* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT *

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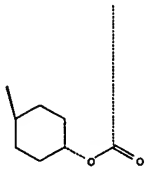
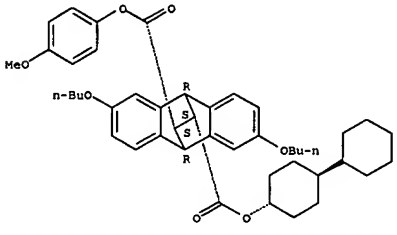


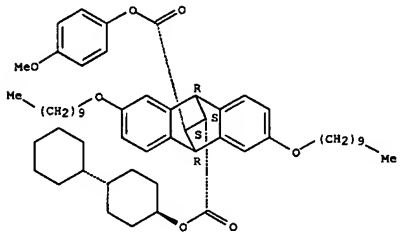
RN 143879-00-9 CAPLUS
CN 9,10-Ethanoanthracene-11,12-dicarboxylic acid, 2,6-dibutoxy-9,10-dihydro-, [1,1'-bicyclohexyl]-4-yl 4-methoxyphenyl ester, [9.alpha.,10.alpha.,11S*(trans),12S*]- (9CI) (CA INDEX NAME)

Relative stereochemistry.



RN 143879-01-0 CAPLUS
CN 9,10-Ethanoanthracene-11,12-dicarboxylic acid, 2,6-bis(decyloxy)-9,10-dihydro-, [1,1'-bicyclohexyl]-4-yl 4-methoxyphenyl ester, [9.alpha.,10.alpha.,11S*(trans),12S*]- (9CI) (CA INDEX NAME)

Relative stereochemistry.



RN 143955-14-0 CAPLUS
CN Cholest-5-en-3-ol (3.beta.)-, 4-methoxyphenyl 2,6-dibutoxy-9,10-dihydro-9,10-ethanoanthracene-11,12-dicarboxylate, [3(9S,10S,11R,12R)]- (9CI) (CA INDEX NAME)

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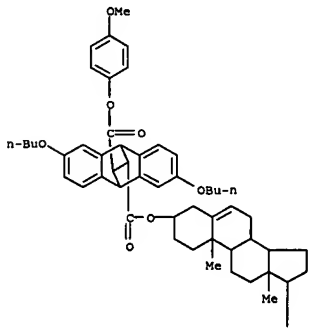

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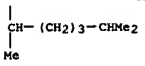

RN 143955-15-1 CAPLUS
CN Cholest-5-en-3-ol (3.beta.)-, 4-methoxyphenyl 2,6-dibutoxy-9,10-dihydro-9,10-ethanoanthracene-11,12-dicarboxylate, [3(9R,10R,11R,12R)]- (9CI) (CA INDEX NAME)

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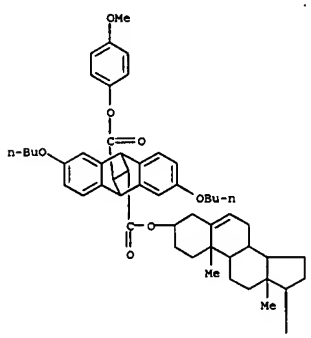

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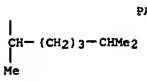

RN 143955-16-2 CAPLUS
CN Cholest-5-en-3-ol (3.beta.)-, 4-methoxyphenyl 2,6-dibutoxy-9,10-dihydro-9,10-ethanoanthracene-11,12-dicarboxylate, [3(9S,10S,11S,12S)]- (9CI) (CA INDEX NAME)

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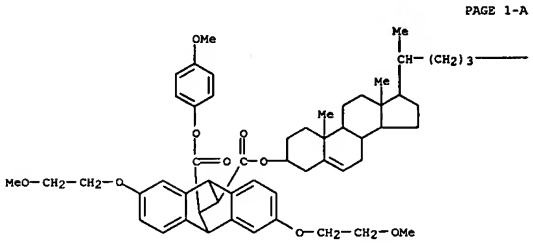

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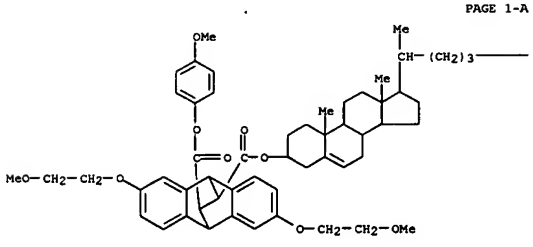
—CHMe2

RN 143955-18-4 CAPLUS
CN Cholest-5-en-3-ol (3.beta.)-, 4-methoxyphenyl 9,10-dihydro-2,6-bis(2-methoxyethoxy)-9,10-ethanoanthracene-11,12-dicarboxylate, [3(9R,10R,11R,12R)]- (9CI) (CA INDEX NAME)

PAGE 1-A



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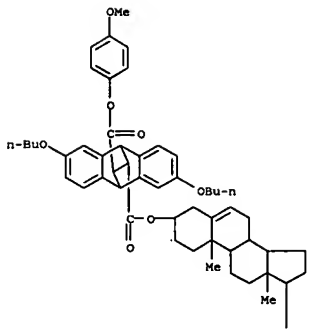
—CHMe2

PAGE 1-A



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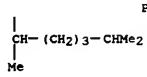

RN 143955-17-3 CAPLUS
CN Cholest-5-en-3-ol (3.beta.)-, 4-methoxyphenyl 9,10-dihydro-2,6-bis(2-methoxyethoxy)-9,10-ethanoanthracene-11,12-dicarboxylate, [3(9S,10S,11R,12R)]- (9CI) (CA INDEX NAME)

RN 143955-19-5 CAPLUS
CN Cholest-5-en-3-ol (3.beta.)-, 4-methoxyphenyl 9,10-dihydro-2,6-bis(2-methoxyethoxy)-9,10-ethanoanthracene-11,12-dicarboxylate, [3(9S,10S,11S,12S)]- (9CI) (CA INDEX NAME)

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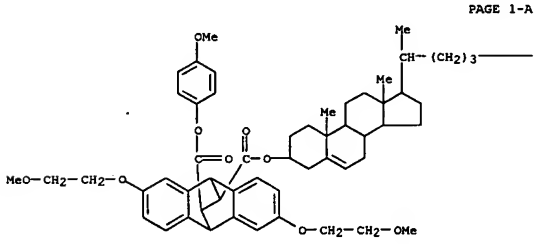

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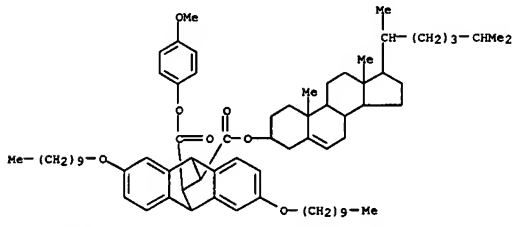
—CHMe2

RN 143955-20-8 CAPLUS
CN Cholest-5-en-3-ol (3.beta.)-, 4-methoxyphenyl 2,6-bis(decyloxy)-9,10-dihydro-9,10-ethanoanthracene-11,12-dicarboxylate, [3(9S,10S,11R,12R)]- (9CI) (CA INDEX NAME)



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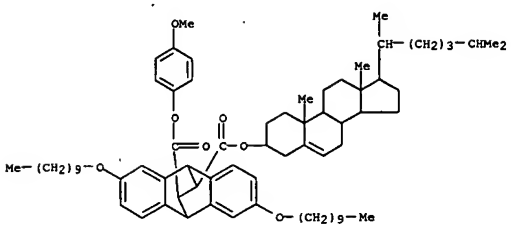
CN Cholest-5-en-3-ol (3.beta.)-, 4-methoxyphenyl 2,6-bis(decyloxy)-9,10-dihydro-9,10-ethanoanthracene-11,12-dicarboxylate, [3(9R,10R,11R,12R)]-

(9CI) (CA INDEX NAME)



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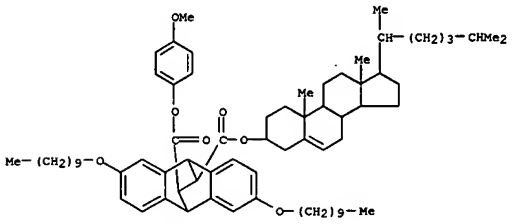
CN Cholest-5-en-3-ol (3.beta.)-, 4-methoxyphenyl 2,6-bis(decyloxy)-9,10-dihydro-9,10-ethanoanthracene-11,12-dicarboxylate, [3(9S,10S,11S,12S)]- (9CI) (CA INDEX NAME)



RN 143955-23-1 CAPLUS
CN Cholest-5-en-3-ol (3.beta.)-, 2,6-bis(decyloxy)-9,10-dihydro-9,10-ethanoanthracene-11,12-dicarboxylate (2:1), [3(9S,10S,11R,12R)]- (9CI) (CA INDEX NAME)

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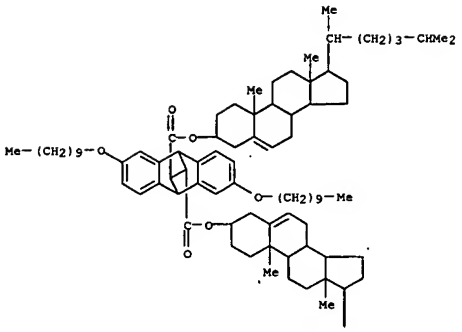

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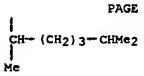

RN 143955-24-2 CAPLUS
CN Cholest-5-en-3-ol (3.beta.)-, 2,6-bis(decyloxy)-9,10-dihydro-9,10-ethanoanthracene-11,12-dicarboxylate (2:1), [3(9R,10R,11R,12R)]- (9CI) (CA INDEX NAME)

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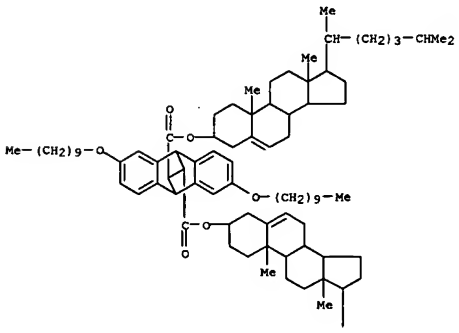

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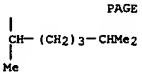

RN 143955-25-3 CAPLUS
CN Cholest-5-en-3-ol (3.beta.)-, 2,6-bis(decyloxy)-9,10-dihydro-9,10-ethanoanthracene-11,12-dicarboxylate (2:1), [3(9S,10S,11S,12S)]- (9CI) (CA INDEX NAME)

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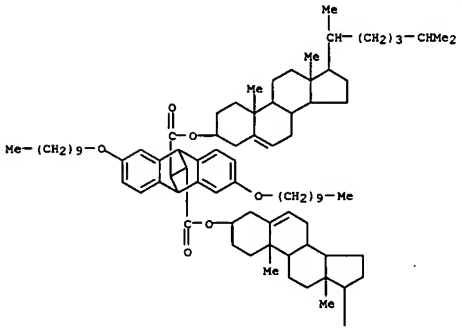

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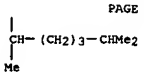

RN 143955-26-4 CAPLUS
CN Cholest-5-en-3-ol (3.beta.)-, [1,1'-bicyclohexyl]-4-yl 2,6-dibutoxy-9,10-dihydro-9,10-ethanoanthracene-11,12-dicarboxylate, [3[9S,10S,11R,12R(trans)]]- (9CI) (CA INDEX NAME)

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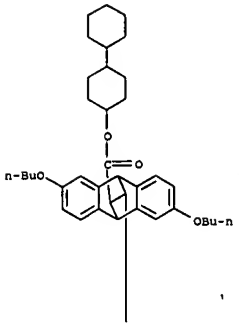

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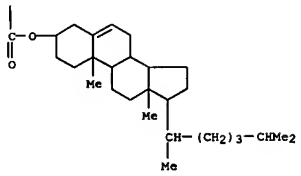

RN 143955-27-5 CAPLUS
CN Cholest-5-en-3-ol (3.beta.)-, [1,1'-bicyclohexyl]-4-yl 2,6-dibutoxy-9,10-dihydro-9,10-ethanoanthracene-11,12-dicarboxylate, [3[9R,10R,11R,12R(trans)]]- (9CI) (CA INDEX NAME)

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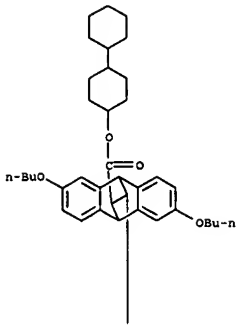

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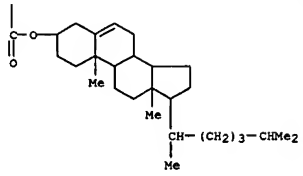

RN 143955-28-6 CAPLUS
CN Cholest-5-en-3-ol (3.beta.)-, [1,1'-bicyclohexyl]-4-yl 2,6-dibutoxy-9,10-dihydro-9,10-ethanoanthracene-11,12-dicarboxylate, [3[9S,10S,11S,12S(trans)]]- (9CI) (CA INDEX NAME)

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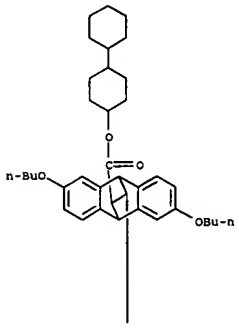

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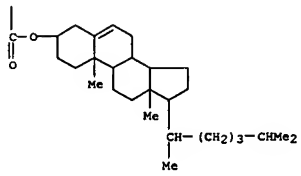
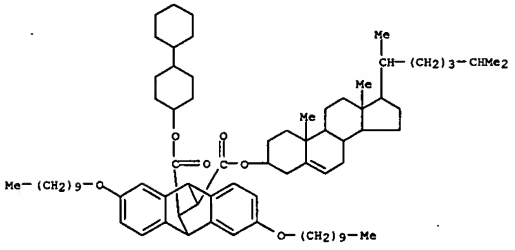
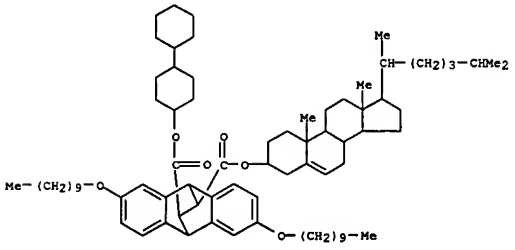


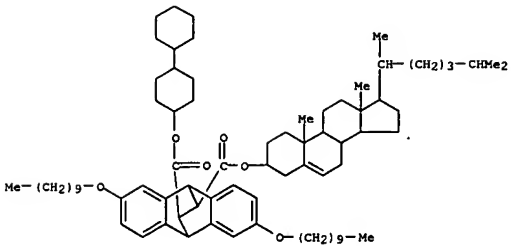
RN 143955-29-7 CAPLUS
CN Cholest-5-en-3-ol (3.beta.)-, [1,1'-bicyclohexyl]-4-yl 2,6-bis(decyloxy)-9,10-dihydro-9,10-ethanoanthracene-11,12-dicarboxylate, [3[9S,10S,11R,12R(trans)]]- (9CI) (CA INDEX NAME)



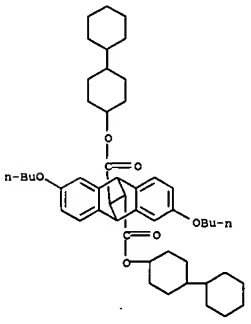
RN 143955-30-0 CAPLUS
CN Cholest-5-en-3-ol (3.beta.)-, [1,1'-bicyclohexyl]-4-yl 2,6-bis(decyloxy)-9,10-dihydro-9,10-ethanoanthracene-11,12-dicarboxylate, [3[9R,10R,11R,12R(trans)]]- (9CI) (CA INDEX NAME)



RN 143955-31-1 CAPLUS
CN Cholest-5-en-3-ol (3.beta.)-, [1,1'-bicyclohexyl]-4-yl 2,6-bis(decyloxy)-9,10-dihydro-9,10-ethanoanthracene-11,12-dicarboxylate, [3[9S,10S,11S,12S(trans)]]- (9CI) (CA INDEX NAME)



RN 143955-32-2 CAPLUS
CN 9,10-Ethanoanthracene-11,12-dicarboxylic acid, 2,6-dibutoxy-9,10-dihydro-, bis([1,1'-bicyclohexyl]-4-yl) ester, [9.alpha.,10.alpha.,11R*(trans),12R*(trans)]- (9CI) (CA INDEX NAME)



RN 143955-33-3 CAPLUS
CN 9,10-Ethanoanthracene-11,12-dicarboxylic acid, 2,6-bis(decyloxy)-9,10-dihydro-, bis([1,1'-bicyclohexyl]-4-yl) ester, [9.alpha.,10.alpha.,11R*(trans),12R*(trans)]- (9CI) (CA INDEX NAME)

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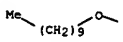

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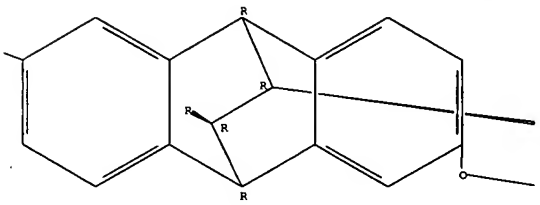

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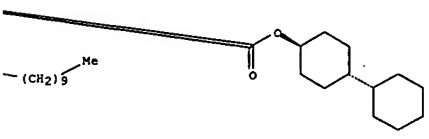
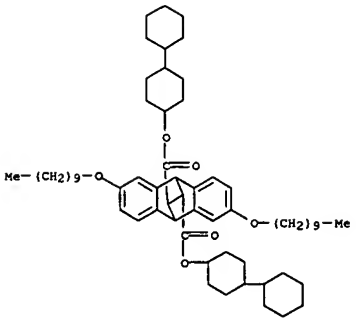
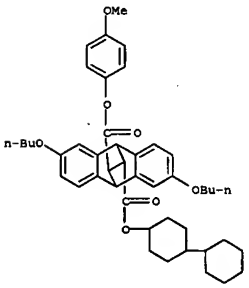




RN 143955-34-4 CAPLUS
CN 9,10-Ethanoanthracene-11,12-dicarboxylic acid, 2,6-dibutoxy-9,10-dihydro-, [1,1'-bicyclohexyl]-4-yl 4-methoxyphenyl ester, [9.alpha.,10.alpha.,11R*(trans),12R*]- (9CI) (CA INDEX NAME)



RN 143955-35-5 CAPLUS
CN 9,10-Ethanoanthracene-11,12-dicarboxylic acid, 2,6-bis(decyloxy)-9,10-dihydro-, [1,1'-bicyclohexyl]-4-yl 4-methoxyphenyl ester, [9.alpha.,10.alpha.,11R*(trans),12R*]- (9CI) (CA INDEX NAME)

Relative stereochemistry.

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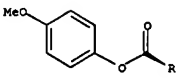
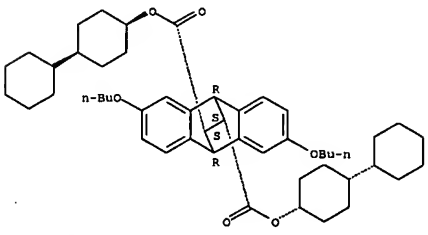


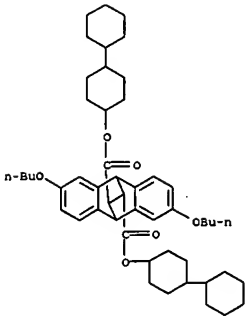
RN 143955-36-6 CAPLUS
CN 9,10-Ethanoanthracene-11,12-dicarboxylic acid, 2,6-dibutoxy-9,10-dihydro-, bis([1,1'-bicyclohexyl]-4-yl) ester, [9.alpha.,10.alpha.,11S*(cis),12S*(cis)]- (9CI) (CA INDEX NAME)

Relative stereochemistry.

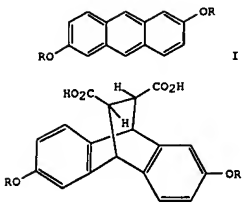


RN 143955-37-7 CAPLUS
CN 9,10-Ethanoanthracene-11,12-dicarboxylic acid, 2,6-dibutoxy-9,10-dihydro-, bis([1,1'-bicyclohexyl]-4-yl) ester, [9.alpha.,10.alpha.,11R*(cis),12R*(cis)]- (9CI) (CA INDEX NAME)

L12 ANSWER 10 OF 16 CAPLUS COPYRIGHT 2003 ACS on STN (Continued)



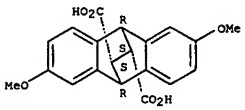
L12 ANSWER 11 OF 16 CAPLUS COPYRIGHT 2003 ACS on STN
GI



AB The uncatalyzed cycloaddns. of 2,6-dialkoxyanthracenes I (R = Me, Bu, MeOCH2CH2, PhCH2CH2) to cholesteric liq.-cryst. fumarates (E)-R1O2CCH:CHCO2R2 (R1 = cholesteryl; R2 = PhCH2CH2, Ph, 4-MeOC6H4, Me, Pr) serving both as dienophiles and media resulted in highly regioselective formation of the syn adducts II in up to 70% diastereomeric excess after sapon.

ACCESSION NUMBER: 1991:428844 CAPLUS
DOCUMENT NUMBER: 115:28844
TITLE: Liquid crystalline dienophiles as regiochemical director in biomolecular Diels-Alder reactions
AUTHOR(S): Yamaguchi, Tatsuya; Yoshida, Takuro; Nagamatsu, Tomohisa; Kunieda, Takehisa; Honda, Takeshi; Hirobe, Masaaki
CORPORATE SOURCE: Fac. Pharm. Sci., Kumamoto Univ., Kumamoto, 862, Japan
SOURCE: Tetrahedron Letters (1991), 32(14), 1729-32
CODEN: TELEAY: ISSN: 0040-4039
DOCUMENT TYPE: Journal
LANGUAGE: English
IT **36319-04-7P 36319-05-8P 134277-79-5P 134277-80-8P 134277-81-9P 134356-32-4P 134356-33-5P 134356-34-6P**
RL: SPN (Synthetic preparation); PREP (Preparation)
(prepn. of)
RN 36319-04-7 CAPLUS
CN 9,10-Ethanoanthracene-11,12-dicarboxylic acid, 9,10-dihydro-2,6-dimethoxy-, (9.alpha.,10.alpha.,11S*,12S*)- (9CI) (CA INDEX NAME)

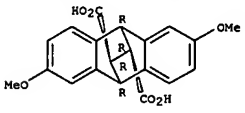
Relative stereochemistry.



L12 ANSWER 11 OF 16 CAPLUS COPYRIGHT 2003 ACS on STN (Continued)

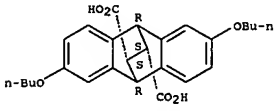
RN 36319-05-8 CAPLUS
CN 9,10-Ethanoanthracene-11,12-dicarboxylic acid, 9,10-dihydro-2,6-dimethoxy-, (9.alpha.,10.alpha.,11R*,12R*)- (9CI) (CA INDEX NAME)

Relative stereochemistry.



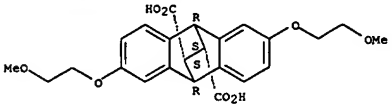
RN 134277-79-5 CAPLUS
CN 9,10-Ethanoanthracene-11,12-dicarboxylic acid, 2,6-dibutoxy-9,10-dihydro-, (9.alpha.,10.alpha.,11S*,12S*)- (9CI) (CA INDEX NAME)

Relative stereochemistry.



RN 134277-80-8 CAPLUS
CN 9,10-Ethanoanthracene-11,12-dicarboxylic acid, 9,10-dihydro-2,6-bis(2-methoxyethoxy)-, (9.alpha.,10.alpha.,11S*,12S*)- (9CI) (CA INDEX NAME)

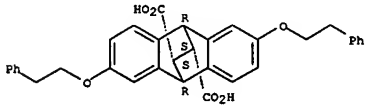
Relative stereochemistry.



RN 134277-81-9 CAPLUS
CN 9,10-Ethanoanthracene-11,12-dicarboxylic acid, 9,10-dihydro-2,6-bis(2-phenylethoxy)-, (9.alpha.,10.alpha.,11S*,12S*)- (9CI) (CA INDEX NAME)

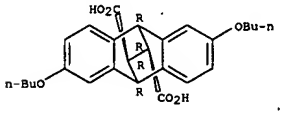
Relative stereochemistry.

L12 ANSWER 11 OF 16 CAPLUS COPYRIGHT 2003 ACS on STN (Continued)



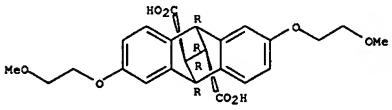
RN 134356-32-4 CAPLUS
CN 9,10-Ethanoanthracene-11,12-dicarboxylic acid, 2,6-dibutoxy-9,10-dihydro-, (9.alpha.,10.alpha.,11R*,12R*)- (9CI) (CA INDEX NAME)

Relative stereochemistry.



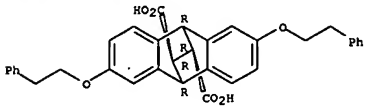
RN 134356-33-5 CAPLUS
CN 9,10-Ethanoanthracene-11,12-dicarboxylic acid, 9,10-dihydro-2,6-bis(2-methoxyethoxy)-, (9.alpha.,10.alpha.,11R*,12R*)- (9CI) (CA INDEX NAME)

Relative stereochemistry.



RN 134356-34-6 CAPLUS
CN 9,10-Ethanoanthracene-11,12-dicarboxylic acid, 9,10-dihydro-2,6-bis(2-phenylethoxy)-, (9.alpha.,10.alpha.,11R*,12R*)- (9CI) (CA INDEX NAME)

Relative stereochemistry.



L12 ANSWER 12 OF 16 CAPLUS COPYRIGHT 2003 ACS on STN

AB Several members of a new class of water-sol. macrocycles with well-defined, hydrophobic binding sites have been prepd. and their binding properties. analyzed. These hosts are built up from ethenoanthracene units and exist in meso (C2h) and dl(D2) forms. The latter have been synthesized enantiomerically pure, the key step being a highly selective asym. Diels-Alder reaction. Several of these hosts display a strong and fairly general affinity for quaternary ammonium compds., an effect ascribed to an ion-dipole attraction between the pos. charged guests and the electron-rich .pi. systems of the hosts. In addn., neutral guests with electron-deficient .pi. systems are preferentially bound, suggesting the operation of favorable host-guest, donor-acceptor .pi.-stacking interactions. Preliminary studies with chiral guests reveal some enantiospecific binding, with preferences as large as 3:1 obsd.

ACCESSION NUMBER: 1989:438796 CAPLUS
DOCUMENT NUMBER: 111:38796
TITLE: "Hydrophobic" binding of water-soluble guests by high-symmetry, chiral hosts. An electron-rich receptor site with a general affinity for quaternary ammonium compounds and electron-deficient .pi. systems
AUTHOR(S): Petti, Michael A.; Shepodd, Timothy J.; Barrans, Richard E., Jr.; Dougherty, Dennis A.
CORPORATE SOURCE: Arnold and Mabel Beckman Lab. Chem. Synth., California Inst. Technol., Pasadena, CA, 91125, USA
SOURCE: Journal of the American Chemical Society (1988), 110(20), 6825-40
CODEN: JACSAT; ISSN: 0002-7863
DOCUMENT TYPE: Journal
LANGUAGE: English
OTHER SOURCE(S): CASREACT 111:38796

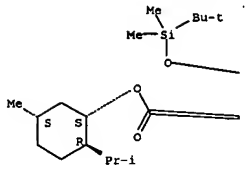
IT **116264-95-0P 116346-78-2P**
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(prepn. and oxidn. and hydrolysis of)

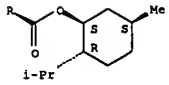
RN 116264-95-0 CAPLUS
CN 9,10-Ethanoanthracene-11,12-dicarboxylic acid, 2,6-bis[[(1,1-dimethylethyl)dimethylsilyl]oxy]-9,10-dihydro-, bis[5-methyl-2-(1-methylethyl)cyclohexyl] ester, [9R-[9.alpha.,10.alpha.,11R*(1S*,2R*,5S*),12R*(1S*,2R*,5S*)]]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

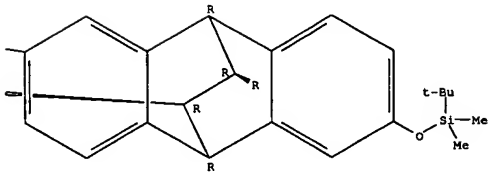
L12 ANSWER 12 OF 16 CAPLUS COPYRIGHT 2003 ACS on STN (Continued)

PAGE 1-A





PAGE 1-B

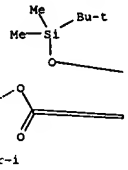


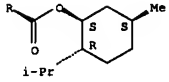
RN 116346-78-2 CAPLUS
CN 9,10-Ethanoanthracene-11,12-dicarboxylic acid, 2,6-bis[[(1,1-dimethylethyl)dimethylsilyl]oxy]-9,10-dihydro-, bis[5-methyl-2-(1-methylethyl)cyclohexyl] ester, [9S-[9.alpha.,10.alpha.,11S*(1R*,2S*,5R*),12S*(1R*,2S*,5R*)]]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

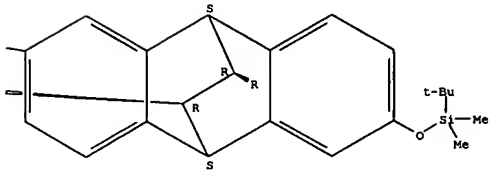
L12 ANSWER 12 OF 16 CAPLUS COPYRIGHT 2003 ACS on STN (Continued)

PAGE 1-A





PAGE 1-B



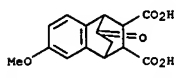
L12 ANSWER 13 OF 16 CAPLUS COPYRIGHT 2003 ACS on STN

AB In methoxybenzobicyclo[2.2.2]octen-2-one derivs. a change in the position of the MeO group causes a change in the direction of the transition dipole moment without much alteration in the .sigma.-electron distribution. The effects of the change of the direction of the local chromophore on the optical activity were studied and analyzed by the application of dynamic and static coupling mechanisms. The optical activity is mainly produced by .vector..mu.-.vector.m coupling and depends on the direction of the local transition moments.

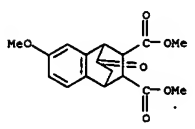
ACCESSION NUMBER: 1978:169387 CAPLUS
DOCUMENT NUMBER: 88:169387
TITLE: Optical activity in .beta..gamma.-unsaturated ketones. Part 1. Effect of the direction of the electric transition dipole moment in the aromatic group in benzobicyclo[2.2.2]octen-2-one derivatives
AUTHOR(S): Hagishita, Sanji; Kuriyama, Kaoru
CORPORATE SOURCE: Shionogi Res. Lab., Shionogi and Co. Ltd., Osaka, Japan
SOURCE: Journal of the Chemical Society, Perkin Transactions 2: Physical Organic Chemistry (1972-1999) (1977), (14), 1937-41
CODEN: JCPKBH; ISSN: 0300-9580
DOCUMENT TYPE: Journal
LANGUAGE: English

IT **29073-57-2 66289-18-7**
RL: PRP (Properties)
(optical activity of, elec. transition dipole moment in relation to)

RN 29073-57-2 CAPLUS
CN 1,4-Ethanonaphthalene-2,3-dicarboxylic acid, 1,2,3,4-tetrahydro-6-methoxy-10-oxo-, [1R-(1.alpha.,2.beta.,3.alpha.,4.alpha.)]- (9CI) (CA INDEX NAME)



RN 66289-18-7 CAPLUS
CN 1,4-Ethanonaphthalene-2,3-dicarboxylic acid, 1,2,3,4-tetrahydro-6-methoxy-9-oxo-, dimethyl ester, (1.alpha.,2.beta.,3.alpha.,4.alpha.)- (9CI) (CA INDEX NAME)



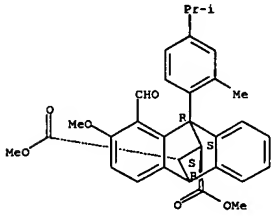
L12 ANSWER 13 OF 16 CAPLUS COPYRIGHT 2003 ACS on STN (Continued)

L12 ANSWER 14 OF 16 CAPLUS COPYRIGHT 2003 ACS on STN

AB The Diels-Alder reactions of several 2-methoxyanthracenes with tetracyanoethylene (TCNE), dimethyl acetylenedicarboxylate (DMAD), and maleic anhydride (MA) were examd. TCNE gave charge-transfer complexes, but not an addn. product in every case. MA gave one-to-one adducts with anthracenes, while DMAD afforded no adduct.

ACCESSION NUMBER: 1976:542892 CAPLUS
DOCUMENT NUMBER: 85:142892
TITLE: Pyridoxal model compounds. II. The Diels-Alder reaction of 9-substituted 2-methoxyanthracenes
AUTHOR(S): Iwata, Masaaki; Emoto, Sakae
CORPORATE SOURCE: Inst. Phys. Chem. Res., Wako, Japan
SOURCE: Bulletin of the Chemical Society of Japan (1976), 49(4), 1163-4
CODEN: BCSJA8; ISSN: 0009-2673
DOCUMENT TYPE: Journal
LANGUAGE: English
IT **60626-35-9P 60661-49-6P**
RL: SPN (Synthetic preparation); PREP (Preparation)
(prepn. of)
RN 60626-35-9 CAPLUS
CN 9,10-Ethanoanthracene-11,12-dicarboxylic acid, 1-formyl-9,10-dihydro-2-methoxy-9-[2-methyl-4-(1-methylethyl)phenyl]-, dimethyl ester, (9.alpha.,10.beta.,11S*,12S*)- (9CI) (CA INDEX NAME)

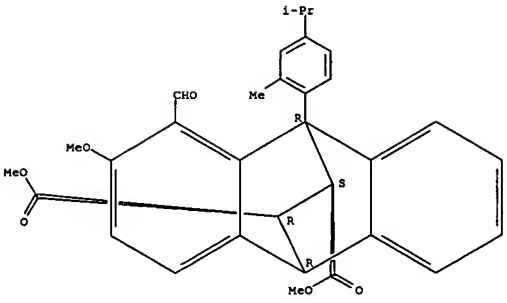
Relative stereochemistry.



RN 60661-49-6 CAPLUS
CN 9,10-Ethanoanthracene-11,12-dicarboxylic acid, 1-formyl-9,10-dihydro-2-methoxy-9-[2-methyl-4-(1-methylethyl)phenyl]-, dimethyl ester, (9.alpha.,10.beta.,11R*,12S*)- (9CI) (CA INDEX NAME)

Relative stereochemistry.

L12 ANSWER 14 OF 16 CAPLUS COPYRIGHT 2003 ACS on STN (Continued)

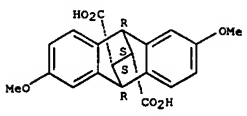


L12 ANSWER 15 OF 16 CAPLUS COPYRIGHT 2003 ACS on STN

AB Optically active C2-sym. 9,10-dihydro-9,10-ethanoanthracene (DEA) derivs. were prepd. and their abs. configurations detd. by kinetic resolution of PhCH-MeOH with optically active DEA 11,12-dicarboxylic acid chloride, spectroscopic studies and chem. correlations. The rotational strengths for the .alpha.- and p-band regions calcd. from the dipole-velocity procedure in the .pi.-SCF approxn., rather than the point-dipole exciton treatment, are in good agreement with expt. Although the rotational strengths are mainly produced from coupling of local excitations, the charge-transfer configurations cause inversion of the sequence of the transition energy of the A and B combination in the excited configurations in certain cases. This is the most important factor in the inconsistency between exptl. and calcd. results based on the exciton approxn. in which it is assumed that there is no electron exchange between the 2 chromophores.

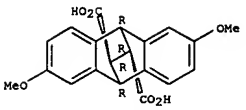
ACCESSION NUMBER: 1972:139860 CAPLUS
DOCUMENT NUMBER: 76:139860
TITLE: Optical activity of C2 symmetrical 9,10-dihydro-9,10-ethanoanthracenes
AUTHOR(S): Hagishita, Sanji; Kuriyama, Kaoru
CORPORATE SOURCE: Shionogi Res. Lab., Shionogi and Co., Ltd., Osaka, Japan
SOURCE: Tetrahedron (1972), 28(6), 1435-67
CODEN: TETRAB; ISSN: 0040-4020
DOCUMENT TYPE: Journal
LANGUAGE: English
IT **36319-04-7P 36319-05-8P 36319-06-9P**
36319-07-0P 36319-08-1P
RL: SPN (Synthetic preparation); PREP (Preparation)
(prepn. of)
RN 36319-04-7 CAPLUS
CN 9,10-Ethanoanthracene-11,12-dicarboxylic acid, 9,10-dihydro-2,6-dimethoxy-, (9.alpha.,10.alpha.,11S*,12S*)- (9CI) (CA INDEX NAME)

Relative stereochemistry.



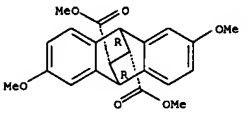
RN 36319-05-8 CAPLUS
CN 9,10-Ethanoanthracene-11,12-dicarboxylic acid, 9,10-dihydro-2,6-dimethoxy-, (9.alpha.,10.alpha.,11R*,12R*)- (9CI) (CA INDEX NAME)

Relative stereochemistry.

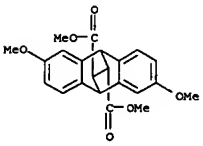


RN 36319-06-9 CAPLUS
CN 9,10-Ethanoanthracene-11,12-dicarboxylic acid,
9,10-dihydro-2,6-dimethoxy-
, dimethyl ester, (9.alpha.,10.alpha.,11S*,12S*)- (9CI) (CA INDEX NAME)

Relative stereochemistry.

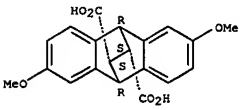


RN 36319-07-0 CAPLUS
CN 9,10-Ethanoanthracene-11,12-dicarboxylic acid,
9,10-dihydro-2,6-dimethoxy-
, dimethyl ester, (9.alpha.,10.alpha.,11R*,12R*)- (9CI) (CA INDEX NAME)



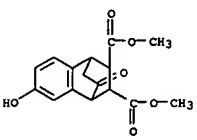
RN 36319-08-1 CAPLUS
CN 9,10-Ethanoanthracene-11,12-dicarboxylic acid,
9,10-dihydro-2,6-dimethoxy-
, (9.alpha.,10.alpha.,11S*,12S*)-(+)- (9CI) (CA INDEX NAME)

Rotation (+). Absolute stereochemistry unknown.

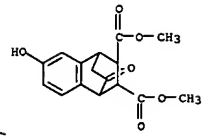


AB The Diels-Alder reaction of 1,7-, 2,7-, 2,6-, and 1,6-dihydroxynaphthalene
and 6-bromo-2-naphthol with maleic anhydride was investigated. All of these 2-naphthol derivs. gave exo and endo adducts except for the bromonaphthol, from which only an endo adduct was obtained. The assignment of exo or endo configuration was based on lactone formation on NaBH4 redn. (possible only from the exo isomer), comparison of NMR spectra, and in some cases dipole moment measurements. The exo-endo ratios of the formed adducts vary over a wide range. Title resolution was
accomplished via the cinchonidine salts. The abs. configuration of the resolved compds. was detd. by applying the octant rule.
ACCESSION NUMBER: 1970:414534 CAPLUS
DOCUMENT NUMBER: 73:14534
TITLE: Diels-Alder reaction. IX. Reaction of 1,7-, 2,7-, 2,6-, and 1,6-dihydroxynaphthalene and 6-bromo-2-naphthol with maleic anhydride and the resolution of some derivatives of the adducts
AUTHOR(S): Takeda, Kenichi; Hagishita, Sanji; Sugiura, Michi; Kitahonoki, Keizo; Ban, Isoo; Miyazaki, Sadao; Kuriyama, Kaoru
CORPORATE SOURCE: Shionogi Res. Lab., Shionogi and Co. Ltd., Osaka, Japan
SOURCE: Tetrahedron (1970), 26(6), 1435-51
CODEN: TETRAB; ISSN: 0040-4020
DOCUMENT TYPE: Journal
LANGUAGE: English
IT **29038-00-4P 29038-11-7P 29073-46-9P**
29073-48-1P 29073-55-0P 29073-57-2P
29073-64-1P 29073-71-0P 29073-72-1P
29196-80-3P 29206-51-7P 31770-13-5P
31770-14-6P
RL: SPN (Synthetic preparation); PREP (Preparation)
(prepn. of)

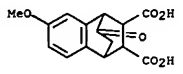
RN 29038-00-4 CAPLUS
CN 1,4-Ethanonaphthalene-2,3-dicarboxylic acid,
1.alpha.,2.beta.,3.beta.,4.al
pha.-tetrahydro-6-hydroxy-9-oxo-, dimethyl ester, (.+-.)- (8CI) (CA INDEX
NAME)



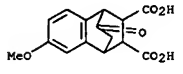
RN 29038-11-7 CAPLUS
CN 1,4-Ethanonaphthalene-2,3-dicarboxylic acid,
1.alpha.,2.alpha.,3.alpha.,4.
alpha.-tetrahydro-6-hydroxy-10-oxo-, dimethyl ester, (.+-.)- (8CI) (CA INDEX NAME)



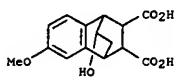
RN 29073-46-9 CAPLUS
CN 1,4-Ethanonaphthalene-2,3-dicarboxylic acid,
1.alpha.,2.beta.,3.alpha.,4.a
lpha.-tetrahydro-6-methoxy-9-oxo-, (.+-.)- (8CI) (CA INDEX NAME)



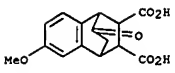
RN 29073-48-1 CAPLUS
CN 1,4-Ethanonaphthalene-2,3-dicarboxylic acid,
1.alpha.,2.alpha.,3.beta.,4.a
lpha.-tetrahydro-6-methoxy-10-oxo-, (.+-.)- (8CI) (CA INDEX NAME)



RN 29073-55-0 CAPLUS
CN 1,4-Ethanonaphthalene-2,3-dicarboxylic acid,
1.alpha.,2.beta.,3.alpha.,4.a
lpha.-tetrahydro-10-hydroxy-6-methoxy-, (.+-.)- (8CI) (CA INDEX NAME)



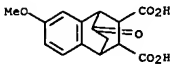
RN 29073-57-2 CAPLUS
CN 1,4-Ethanonaphthalene-2,3-dicarboxylic acid,
1,2,3,4-tetrahydro-6-methoxy-
10-oxo-, [1R-(1.alpha.,2.beta.,3.alpha.,4.alpha.)]- (9CI) (CA INDEX NAME)



RN 29073-64-1 CAPLUS
CN Cinchonidine, (1S,2S,3S,4R)-(+)-1,2,3,4-tetrahydro-6-methoxy-9-oxo-1,4-ethanonaphthalene-2,3-dicarboxylate (1:1) (8CI) (CA INDEX NAME)

CM 1

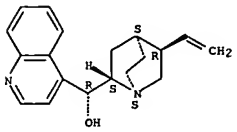
CRN 47131-85-1
CMF C15 H14 O6



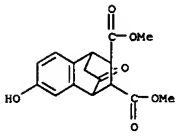
CM 2

CRN 485-71-2
CMF C19 H22 N2 O

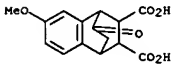
Absolute stereochemistry.



RN 29073-71-0 CAPLUS
CN 1,4-Ethanonaphthalene-2,3-dicarboxylic acid, 1.alpha.,2.beta.,3.beta.,4.alpha.-tetrahydro-6-methoxy-9-oxo-, dimethyl ester, (.+-.)- (8CI) (CA INDEX NAME)

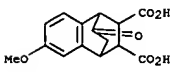


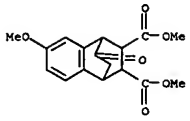
RN 31770-13-5 CAPLUS
CN 1,4-Ethanonaphthalene-2,3-dicarboxylic acid, 1,2,3,4-tetrahydro-6-methoxy-9-oxo-, disodium salt, (1S,2S,3S,4R)-(+)- (8CI) (CA INDEX NAME)



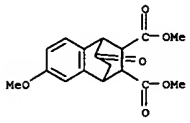
●2 Na

RN 31770-14-6 CAPLUS
CN 1,4-Ethanonaphthalene-2,3-dicarboxylic acid, 1.alpha.,2.beta.,3.alpha.,4.alpha.-tetrahydro-6-methoxy-10-oxo-, (.+-.)- (8CI) (CA INDEX NAME)

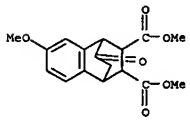




RN 29073-72-1 CAPLUS
CN 1,4-Ethanonaphthalene-2,3-dicarboxylic acid, 1.alpha.,2.alpha.,3.alpha.,4.alpha.-tetrahydro-6-methoxy-10-oxo-, dimethyl ester, (.+-.)- (8CI) (CA INDEX NAME)



RN 29196-80-3 CAPLUS
CN 1,4-Ethanonaphthalene-2,3-dicarboxylic acid, 1.alpha.,2.alpha.,3.alpha.,4.alpha.-tetrahydro-6-methoxy-9-oxo-, dimethyl ester, (.+-.)- (8CI) (CA INDEX NAME)



RN 29206-51-7 CAPLUS
CN 1,4-Ethanonaphthalene-2,3-dicarboxylic acid, 1.alpha.,2.alpha.,3.alpha.,4.alpha.-tetrahydro-6-hydroxy-9-oxo-, dimethyl ester, (.+-.)- (8CI) (CA INDEX NAME)

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COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	81.75	539.62

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE ENTRY	TOTAL SESSION
CA SUBSCRIBER PRICE	-10.42	-11.72

STN INTERNATIONAL LOGOFF AT 15:09:14 ON 22 SEP 2003